

MID 08773843/

January 15, 2013

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: December 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The December monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the December operators' inspection logs. No wildlife was potentially exposed in the month of December.

Please contact me at (313) 845-3217 or Lan Trinh at 313-323-1260, if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDEQ

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR December 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Inspection Summary and Report Sheets	Appendix A

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period December 1 through December 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

On several occasions, gulls, red tail hawk, blue jays, and morning doves were observed using one of the treatment plant impoundments, and were scared off with the air horns. The birds flew or ran away after horn blasts, so persistent hazing with the air horn was necessary.

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the December inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in December. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in December 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In December, there were observations of gulls, red tail hawk, blue jays, and morning doves overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of December 2012.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
124	9	4	No	Near Primary Lagoon, near	4	Flew away on their own or after
				Secondary Lagoon, near Diked	1	horn blasts.
				Lagoon, and near Bermed		
				Area.		

^{*}During dawn to dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	31 days	31 days	0	None

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of R	ecoverable Oil I	Not Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.

			S	RWWTP	- Wildlife Activi	ty Log		
2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
12-01	L. AM	N	N	7	7	0	N	4
12/01	9:92 4		N	2	7	8 0	とは	C.L
12/01	1:99m	N	N	7		09	NE	C.L.
13:01	7 Pm	N		X	7	_ Ö	N. C.	龙
4	600Am	Molarine Dines	Ν	N	3	2	NOTHING HAPPENED	进
12/02	9'80 1'AM	Mosning Down	N	N	<u> </u>	2	Fly away	C.L,
12/02	1:00 1:0M	Gulls	7	N	PIS,	0	N	C.L.
12/2	S'oopn	N		/ 11/	$\mathcal{N}_{\mathcal{I}}$	0	$\mathcal{N}_{\mathcal{I}}$	R
12/3	7:00 AM	1		N	\mathcal{N}	0	<i>\\</i>	140
12/2	9:00 MAN	RUD MILED HAWK	<u> </u>	N	O	0	λ	A-IF.
12/3	100 PM	N	N	Δ	N	೦	N	A-4
12/3	8200 PM	$\mathcal{N}_{\mathcal{I}}$	$\mathcal{A}_{\mathbf{A}}$			0	\mathcal{N}_{i}	R
12/4	7:0811	\sim	\mathcal{N}	\sim	\sim	0	\sim \sim	A
12/4	7.00 A.M	Ν	__\	<u>/</u> J	N	0	N	A.H.
12/4	(JOD DW	N	-N	N	Z	0	M .	A-H
12/4	8,80	N	_h/	_//_		0	$\sim \Lambda /$	al
12/5	7.04M	\sim	n/			0		R
12/5	9100 AM			\mathcal{N}	N	0	N	10
Location (Code: B	= near Bermed area; D	= near Dike	ed lagoon; P =	near Primary lagoon;	S = near Se	econdary lagoon; SL = near Sludge por	nds.

FORM SRWWTP 1.03 DATE: 2/24/2001

-			S	RWWTP -	- Wildlife Activi	ty	Log		
Date 20(L	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)		mber of n Blasts	Result	Inspector (Initials)
1215	1:09.4	BLUETAYS	ム	N	B		0	\mathcal{N}	A.H.
12/5	8108m	N	N	N	\mathcal{A}		Ì	$\mathcal{N}_{\mathcal{I}}$	R
12/6	7.00m	N.	\mathcal{N}	N			0	·N	
12/6	9:00	N	N	7	V		0	N	ACA
12/6	1:00 p.M	. N	Z	7	N		(0)	7	AH
1306	S.co.Bv	N	X	N	N			\sim	
1307	J;∞AM	N	N	λ,	N		0	N	
12/07	9.99	N	7	2	N		0	7	C.L
12/07	I.OSM	2		2	2		0	7	C.L.
12 07	745 PM	7	N	2	N		0	N	世
12 38	600Am	7	N	$\mathcal{N}_{\mathbb{R}^2}$	N		0	λ	H
1208	9199	N	N	7	2		٥	N	C.L.
12/08	1:00pm	N	N	N	2		0	2	C.L.
12 8	TYSPM	N	N	7	N			\mathcal{N}	#
1309	6:09An	Z	7	N	7		0	И	世
12/09	T. DOAM	2	7	2	2		0	N	C.L.
12/09	1199M	N	2	2	7		()	N	Ç.C
1209	TER	N	N	7	N		0	N	t

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

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•			S	RWWTP -	- Wildlife Activi	ty Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
3-10	Coopy	N	Z	7	X	0	N	世
12/10	9:80	7	N	N	N	0	N	C.L.
12/10	1:00 m	N	N	7	N	0	N	Colu
12/10	8 COM		\mathcal{N}	\mathcal{N}	N	7		LC
12/11	7 Am		N	N	\mathcal{N}	0	n/	K
	9.03	N	N	7	\sim	0	Ĭ	AH.
12/11	1:000	N	N	7	N	0	N	A.H.
12/1)	8.82	\mathcal{N}	$\mathcal{N}_{\mathcal{I}}$	$\mathcal{N}_{\mathcal{I}}$		0	$\mathcal{N}_{\mathcal{I}}$	RE
12/12	7/98M		N	N	\mathcal{N}		\mathcal{N}	
12/12	9: AM	N	Ŋ	7	N	0	N	A.F.
12/12	1:00 p.M.	N	N	7	/\d	<u>එ</u>	N	ALL
12/12	8:00	N	A_{λ}	N	\mathcal{N}	0	n/	10
12/13.	7:08M	N	N	\mathcal{N}		0		1
12/13.	5,00 A.M.	N	<u>U</u>	N	N	0	N	A. H.
12/13.	1:03 N.M.	N	N	N	N	٠ ۵	N	A.K.
12 3	8:09M	N	N	$\Lambda I I$		0	$\mathcal{M}_{\mathcal{A}}$	P
12/14	7. 8.M	N	\mathcal{N}	N	N	0	N	a
12/14	9:10 AM.	REO TAILED HOW HE	4	W	D	0	N	Artho

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Studge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

,			S	RWWTP -	- Wildlife Activi	ty Log		
Date ひい	Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
12/14	1:00,00	N	Ŋ	W	7	٥	N	AH.
12/14	745 PM	N	7	N	N	0	N	<i>bh.</i>
12 16	D CYNE	N	N	N	Ν	0	\mathcal{N}	Ut
14,5	9:00	N	7	2	N		N	CIL
12/15	1: 89	N	7	2	2	0	N	C. L.
12/15	8.BW	S. S	i di	2	2	0	N	C.L
12.16	6.00 AM	N	N	N	7	0	N	<u> </u>
1716	9,384	N	1)	2	7	6	N	CIL.
17/6	LPM	N	7	7	2	0	N	C.C.
12/16	1:42DW	N	7	7	2	0	N	
12 17	600Am	7	7	7	7		N	H
12/17	9:22	7	Ŋ	N	2	0	N	CIL
1417	1:8M	2	7	N	2	8	N,	C.L.
12/17	53%	2	2	N	7	0	N	CIL
318	J.WYW	7	N	N	N	0	N	世
12/18	J. 20	N	N	N	, Marie Mari	0	N	H
1718	1:00m	N	N	N	N	0	N	C.L.
14/8	5.3%	N	N	N	7	Ò	N	C.L

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Duck	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result /	Inspector (Initials)
12/19	7'98M	N	N	Λ	1/	0	N	12
12/19	9: 8M	N	M	7	Ň	0	\sim	AH
12/19	1. pm	N	N			0	\sim	AH
	5: 3m	N	N		7/	0	$\mathcal{N}_{\mathcal{I}}$	A.H.
12/20	7.60 1. AM	$-\Delta$	Λ	N				1
12/20	9:80 AM	N.	N	_ لـُر			, j	A.G.
12/20	1. 60 6	N	N	<u> </u>	N	0	N	A.H.
12/20	$5.3P_{\rm m}$	\mathcal{N}	ν,	<u> </u>	//	10	$\mathcal{U}_{\mathcal{I}}$	AH
12/21	7:88	N		\mathcal{N}	N.		n/	14
	9) SPA	N	Λ,	<u> </u>	N	0	N,	AT
12/21	1:88m	Ν	N_{c}	λ	Ν	0	A C	A.H.
12/21	5'3°	7	<u> </u>	$\underline{\mathcal{U}}_{\perp}$	N_{ℓ}	10		A-H.
1422	7:88n	\sim	N	\mathcal{N}		10		14
12/22	9:00 1:00	Cous	1	N	SL,	0	Ü,	A.H.
12/20	1:00M	$\mathcal{N}_{\mathcal{I}}$	14	N	<i>U</i> ,	10		A.H.
	5′.38m	N	<i>N</i>		N	0	\mathcal{A}	A.H.
23	7:90m	N	N	N	N	0	N	动
2123	9:20	N	N	N	N	0	N	C.L.

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Studge pends.

FORM SRWWTP 1.03 DATE: 2/24/2001

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·			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Hom Blasts	Result	Inspector (Initials)
12/23	LPM	Gulls	ì	N	51	0	N	CIL
12 23	5'38M	N	Z	N	7	0	N	C.L.
12/24	7: AM	7	N	N	N	0	N	201
17/24	9'88	N	N	7		0	N	C. L.
12/24	1.89	Gulls	1	N	\$SL	0	N	C. L
12/24	5' PM	N	N	<u>N</u>	7	0	N	C.L
13 25	7:00 Am	7	7	N	N	و ا	X	101
1425	9.9gm	N	2	2	N	0	N	C.L.
1425	1:0PM	Ŋ	Ŋ	N	2	0	N. Comments	C. L.
1425	5.36.M	N	N	N	N	0	N	C. L
13 26	WHOO F	N	N	N	N	0	N	M
12/2E	9:00	N	N	N	7	0	N	C. L
12/26	1.8.M	N	N	N	N	0	N	C.L.
12/26	5.2°M	Ŋ	N	N	N	0	N	C.L.
12/27	7:00 AM	N	N		N	0	N	R
12/27	9:00 M.M.	N	N	N	N	٥	N	A.T.
12/27	1:00 nm.	N	7	N	<u> </u>	0	N	A.1+.
12/2	530 pm	= near Borned area: D	N	W	M	0		A.It.

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Studge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
12/28	7:00 AM	n/	1	\mathcal{A}	N	0	N	100
12/28	9:00 M.M.	N	X	لِي	V	0	N	A-4.
12/22	1:00 p.m	N	/(1	7	7	٥	N,	Aft.
12(28	53° pm	N	N		<u> </u>	0		A.H.
12/29	7:00 AM	\mathcal{N}	N	N	N	0	\mathcal{N}	RO
12/29	9'00 km	N	7	N	N	٥	N	A. A.
12/29	1.00 p.M.	N	N	N		0	N	A-H.
12/28	5.30 M.	Z	N	N		0	$\mathcal{N}_{\mathcal{A}}$	AH.
12/30	7:00 AM	\mathcal{N}	A	N	\mathcal{N}	0	\mathcal{N}	R
12/20	JO WIN.	Ń	<u>L</u>	N	N	0	N	AH.
1430	1.00 M.	Ň	N	N	/	0	N	AH.
12/33	5:391.M.	N	N	N	N	0	N	AH.
\sim \circ 1	J.co/W	N	N	N	N	0	N	九
,	9:89M	N	N	N	7	0	N	C.L.
1431	1:89M	N	N	N	7	0	N	C.L.
12/31	5: 3A	7	N	N	N	0	N	C.L
X					i indicate de la constante de			
X								

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

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inspec	tion		Status of I	Deterrent S	ystems	Wistigs	Ibservations		Secretaria de la companya della companya della companya de la companya della comp
	*Alteria	ľ	ence	Bank Cover	Noise Cannon		***************************************	overseed the downer	
Date 2012		Breach/ Damage (Y/N) [†]	Location (if Y)	Oiled (V/N)	Operating Properly (V/N) ²	Wildlife Observed (N. or Type Observed)	Expused Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials)
12/	1000 M		Ν	4	7	N	N	N	<u></u>
<u> </u>	7394		N		7	N	N	N	
2/01	9100		<u> </u>	<u> </u>			N	N	Cil
7 /) PM				4	<u> </u>	N	N	(° 1
	BOPM	<u> </u>	N	4				N	#
2/	9.00 9.00 AM			Y	<u> </u>		N	N:	110
702	I AM	7	N	1	7			N	Cil.
i	7100 AM	American Laboratoria de la Companyo	$\frac{N}{n}$					Ŋ	0,4,
2/3	800 M	• •			7	M.		N	M
	9'00 7' AM		W	4	7	······································	N		<u> A</u>
·/ 🤈 🍈	PM	N	N	V		<u> </u>			A-11.
CHARLES AND	7.00 AM		N	·				<u> </u>	AH
74	8:89	W	W	1	1//		The second secon	1/	A=
10000		Militari (anticonomica di mandiano	iam inite station (1990)	management de samme de la comme de la comm	and the same of th			\mathcal{N}	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

q/lexcel-rouge/Srwwtp oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	vitems	Widis	Observations		dangenkan <u>in ter</u>
			ence	Bank Coyer	Noise Cannon				
2012		Breach/ Damage (Y/N) [†]	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
12/4	9:00 AM	N	N	Y	4	N	A		
· · · · (1,00 PM 7,00	1/	N,	4	4	N	N	N	AIL
12/5	ROO	N	$\mathcal{N}_{\mathcal{I}}$	4	Y			1/	AH
*************************************	7.00	N		L.Y.	<u> </u>		n /	n	1
2/5	AM	\mathcal{N}		4	<u> </u>		N		
j	1/22 7:00		4	Y		N. Commence of the Commence of		\(\frac{1}{\lambda}\)	art.
12/6	745 _{рм}	N	4	7			N	N	
j	000	. 1	λ	9			N	N	
46	7' AM /200 PM	77	77	-	4			N	A-14
2) 00 6 AM		N	$\sqrt{}$	V			\wedge	AH.
07	7.45 _M	N I	//	4			No.	N	
<i>4c</i> 7	9 00 9 AM	N	2					N.	M
, ,	PM	N	N					<u>u</u>	C_{1}
57.7. 12 CKY	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		escription of	otronomico de la companya della companya della companya de la companya della comp	worden de la constant	Name of the same o		N	ad.

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

qu'excel-rouge Srwwip oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of I	Deterrent S	ystems	Wildlife Observations I				
	Odfitte Kreight Angel		ence	Bank Cover	Noise Cannon			**************************************	mannikanakan	
		Breach/ Damage (Y/N) [†]	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ¹	Wildlife Observed (N. or Type Observed)	Expused Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)	
12/	LOQ _M	N	ン	4	Y	N	N	N		
/68	7:45	N	N	<u> </u>	<u> </u>	N	N	N	<u>n</u>	
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FORM SRWWTP 1.02

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FORM SRWWTP 1.02

DATE: 2/26/2001

quescel-rouge Srwwtp oil management insp. log sheet

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FORM SRWWTP 1.02

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DATE: 2/26/2001

gifexcel-range Sewwip oil management insp. log sheet

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A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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MID 087738431

December 14, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590 DEC 1.8 2012

LAND AND CHEMICALS DIVISION 5

U.S. EPA - REGION 5

Subject: November 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The November monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the November operators' inspection logs. No wildlife was potentially exposed in the month of November.

Please contact me at (313) 845-3217 or Lan Trinh at 313-323-1260, if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDEQ

US Fish & Wildlife, Ann Arbor Office

E: Jim.Earl@severstalna.com www.severstalna.com



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR November 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Inspection Summary and Report Sheets	Appendix A

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period November 1 through November 30, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

On several occasions, gulls, blue herons, juncos, nuthatches, sparrows, morning doves, and robins were observed using one of the treatment plant impoundments, and were scared off with the air horns. The birds flew or ran away after horn blasts, so persistent hazing with the air horn was necessary.

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the November inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in November. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CERT workplan have been effective for activiting active exposure.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in November 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In November, there were observations of gulls, blue herons, juncos, nuthatches, sparrows, morning doves, and robins overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of November 2012.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
120	19	7	0	Near Primary Lagoon, near	10	Flew away on their own or after
ļ	·		*	Secondary Lagoon, near Diked		horn blasts.
				Lagoon, and near Bermed		
				Area.		
				l . *		

^{*}During dawn to dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	30 days	30 days	0	None

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	lot Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.

			9	RWWTP -	- Wildlife Activi	ty Log	FOR CONTRACT AND	
Date 2012	Tirte (Daw 1 & Du k)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
11//	750 M	N	\mathcal{A}		N	<i>O</i>	\mathcal{N}	Æ
11/1	9:0 3	GULL	4	7	54	0	N	AA
11/1	1:0 m.	N	N	N	7	0	N,	AH
11/1	8/20		N	\mathcal{M}	\sim	0	\sim	RC
11/2	765	\mathcal{N}	1	N	N	0	\mathcal{N}	R
11/2	9:00	JUNCO	N	N	B	0	\mathcal{A}	AH.
11/2	(; a ; m		N	7	Ρ	1	FLOW AWAY	A.H.
	801	\mathcal{N}	1/,	\mathcal{N}	\mathcal{N}	0	N,	M
1/3	7'00 M		h/	_/_	n/	8		1
	9:00 M	Pous / JUNCO	N	N	56 / B	0	N	A.A.
1113	1:00 PM	Robins	N	N		0	N	AH
11/3	87 m	\mathcal{N}	N	$\mathcal{N}_{\mathcal{I}}$		0		19
11/) 9 m	N	\mathcal{N}	N		0	N	1
, , -	aid W	N	N	N	N	0	N	C.L.
114	1.00 m	Gull		N	SL	0	Ν	C.L.
4	8,00 M	N	N	N	N	0	λ	DA>.
	6 m	N	N	<u> </u>	N		N	the
uls Cocation C	9:07	GULL	<u> </u>	7	5L	0	condary lagoon; SL = near Sludge pon	CIL

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

•			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
11/05	27m.	N	7	7	7	0	7	2, 4,
11/5	7:30 2/1	N	N	K	N	Õ	X	77
11 6	6:00A	N	N	N	N	0	N	M
11/06	9:30AM		N	2	7	0	H	C.L.
1106	IOO PM	7	2	2	7	0	N	C.L.
11/6	7:30Pm	N	7	N	7		N	<u>Jan</u>
11-7	600/m	N	N	N	N		N	动
11/07	9:00Ar	7	7	7		0	N	C.L.
1107	1:80pm	N	7	7	N		N	C.L
11-9	J. SO PM	7	N	2	7	0	N	B-
18	P.WW	Z	N	7	7		N	#-
1408	9:92m	N	Ŋ	N	N.	Ô	N	C. L
11/08	1:00pM	N,	N	N	N	0	N	C.L.
11/8	8:90	N	N		$\mathcal{N}/$	D	N	R
11/9	7:50	\sim	N	N	N	0		A
11/9	9:09 H.	GULLS	4	\sim	P	0	N	AIL
11/9	1:00 pim	N	4	N	N,	0	N	AH.
1119	8100 PM	\sim	Λ	N	N	0		RO

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

·			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
11/10	7.00 HM	N	Δ	N	N	0	\mathcal{N}	
11/10	7,00 mm	N	V	Ŋ	V	0	7	A-14
11/10	1:00/1		N	N	7	0	77	Alto
11/10	8:00	N				0	1)	
1///	7:08M	n/		N		$\left(\right)$		A
11/11	9:00 AM.	N	N	7	<i>N</i>	0	Ĭ,	A. II.
11/11	1'copM		N	7	\mathcal{A}	0	\mathcal{A}	AH.
1///	8 88	N	N		N	0	N	R
11/2	7-9m	N	1	N		0	\mathcal{A}	
11/12	3:000	N	7	N	7	0	7	A.H.
11/12	1,000	N	N	N	M	0	N	AH.
12	1 Jospy		N	7	N	0	N	
JI B	100 AN	N	N	N	N	0	N	D
1/13	9:00AM.		N	7	N	0	7	C.L.
11/13	1:00 PM	U	N	7	*	0	N	C. L.
13	1/265V	SPARROWS	N	N	<u> </u>	2	The hust	bt
111	/MP of	N	N	N	N	0	N	The state of the s
11114	9'.00AM		N	Ŋ	2	Ō	7	C, C,

Location Jode: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRV WTP L03 DATE: 2/24 2001

			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
11/14	1:00 P.M	N	N	N	2	0	N	C.L.
7	7:30 PM	N	N	N	N	0	N	#
15	600AM	N	N	N	N	0	N	D
11/15	9:09m	N	N	N	2	0	N	C. 1
11/15	1:22pm	N	N	7	N	ି ଅ	N	C.L.
5	7,355	7	7	N	N	0	N	74
1/10	Pionym	7	7	7	N		X	# J
	9:00AM	N	7	2	~	0	N	CiL.
11/16	LODEM	1	1	2	2	0	N	C.L,
11/16	8:000	N.	\mathcal{N}	N	N	0	N	RO
רולוו	7:09M	N	'n/	n	N	0	N	RE
11/17	9:00 AM	N	N	7	7	0	N	A.H.
11/17	l'opput	N	N	7	7	0	N	A.H.
1/17	8:00 PM		1/		n	0	N	14
1/18	7:08m	N/	M	N		12	n	A
1/18	9: WM	N	N	N	N	0	λ	A.H.
1/18	Mqco'l	N	$ \mathcal{M} $	N	N	0	N	Ait
11/18	8:00	\sim	Λ	N	N	0	1/	10
ocation (Code: B	= near Bermed area; D	= near Dike	ed lagoon; P =	near Primary lagoon;	S = near So	condary lagoon; SL = near Sludge po	nds.

FORM SRWWTP 1.03 DATE: 2/24/2001

			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
11/19	7.90	1/	N	N	N	0	N	
11/19	9:000	N	\mathcal{N}	N	N	٥	\mathcal{N}	AA
11/19	1'09 M.	N	W	Z		Ó	\mathcal{N}_{ℓ}	A.4.
11/19	8:00 M	N	W	$\mathcal{N}_{\mathcal{L}}$	\mathcal{N}	\bigcirc	\mathcal{N}	A
11/20	7:00m		N	\mathcal{N}	\sim	D	N N	A
11/20	7'00 AM.	GULLS	7	N	P-5	0	N	A. It.
11/20	100pm	N	N	\mathcal{A}	\mathcal{N}	<u>ک</u>	N	ALL
1/20	130 PM	N	N	N	N	0	N N	77
1/21	600AM	N	N	N	7	0	N	
1/21	1300 M	1 0	N	7	\sim	0	N	<u></u>
11/21.	PM	N	N	7	2	0	7	C.L.
11/21	1-30 Pm	N	N	7	7	O	N	M.
10	Joo Am	N	N	N	N	0	N	劫一
1/22	9.00 AM	N	7	2	2	D	2	(1,4,
11/22	1 98M	W	N	7	2	0	N	C, L
11 22	7.30 BV	N	N	7	N	0	Ν	3
11/23	600 AM	N	N	N	N	0	N	世
11/23	7:09M	2	7	7	2	0	N	C.L.

Location Jode: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRV WTP 1.03 DATE: 2/24 2001

q: excel/rouge\Revised by MEC.xis

٠			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/23	1199M	7	7		2	0	N	C.L.
1/23	7:30B	N	N	N	N	0	N	1.31-
1-21	6:00Am	Mossing Dots	N	7	J	0	FIEW XWXY	
1/24	9.00m	Gull	V	N	PP	0	V	C.L.
11/24	1:98M	N	N	N		0	7	C.L.
11/24	8100	N	N/	N	\mathcal{N}	0		199
1/25	7:00 AM	N	1	N	N	0	\mathcal{N}	R
1/25	9'00 AM.	N	N	<u> </u>	7	0	N	A-14.
425	(100 pd	N	N	7)	N	0	N	A-H.
11/25	8:88	N	\mathcal{A}	N	N	0	N	
11/26	7:08M	n	N	n/	N	0	N	AC
11/26	9:00 MM	Golls, Junio Hoppon	N	\mathcal{N}	P, B, D	٥	N	A. 14.
1/26	1:00 p.M.	N	N	7	, N	0	N	A-H
11/26	8.08M	N	N	\mathcal{N}	N	0	$\mathcal{N}_{\mathcal{N}}$	14
11/27	7:09M	N	N	\sim		0	\sim	
1/27	9,00 A.M.	GULLS	N	V	ρ	0	N	A.H.
11/27	1:00 PM.	N	<u> </u>	Z	N	0	7	A.H.
1/27	8:08M	N		1/		0	econdary lagron: SL = near Studge of	16

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

•	1 4. %		S	RWWTP -	- Wildlife Activi	ty Log		
Date	D. 10	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
11/28	7:00 M		\mathcal{N}	N	$\Lambda/$	0	N	M
11/28	19:00 N	7.1	N	N	لّر	0	N	ATE
11/28	100 p.M.	N	\mathcal{N}	7	\mathcal{A}	0	N	AH.
11 20	7:30 Pm	N	7	7	N	0	N	
" 29	P-00/AM	N	N	7	N	0	N	H
1/29	9 RM	JUNCO	7	N	SLIB	2_	Flew Away	C, L,
1/29	NOBM.	Robins	2	N	S	and the second	Flew Away	C.L.
11 20	14.30 R	N	N	7	N	U	N	址
1130	P:00/1	Robins	N	N		2	FLEW AWAY	J.
1430	1:00 1: A.M.	Gulls	4	N	PIS	0	Flew Away	C.L
1/30	1'8m	Robins	N	N	SL	2	Flew Away	0, 1
11/30	7.30 PM	N	7	N	N	0	N 1	1
3						-		
						· .		
:								

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Studge ponds.

FORM SRV/WTP 1:03 DATE: 2/2/2001

q: excellrouge Revised by MEC.xls activity log







Inspect	len		Status of 1	deterrent S	ystems	Wildlife)bservations		·
			ence	Bank Cover	Noise Cannon				PRINCE DE LA COMPANION DE LA C
2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (V/N) ²	Wildlife Observed (N. or Type Observed)	Expused Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
11/1	7:00 8:00	N	A/	1	4	<u> </u>			H
	9/03 AM	, 1	<u> </u>	4		A C		N	R
11/1	1:00 PM	77	L)	Y	4		No.	4	A.H.
	7:06 AM	N	N	Y	4	N		<u> </u>	A.H.
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	8,00 8,00	<u> </u>	3	- }-	' 4	4	N	1	A
11/2	7' AM 1'9° PM	<u> </u>	$\frac{2}{3}$	7	7	<u> </u>	15	Ž	A-74.
. / 1	700m	M	N						AH
	8.9%	N	1/	4	VI			- 2/ 1/	
/ / _ Long	100 AM		N	Ÿ	4			W	A.H.
11/11	7/01/2 7/01/2 7/01/2		N			A A	U	/U	AK
11/4	SOP,	N	N	71		N	N	4	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Inspection			Status of I	Jeterrent S	Ystems	Wildlife	Observations	THE PARTY NAMED IN THE PARTY NAMED IN	·
		Colinary de la Maria de la Colonia de la	ence	Bank Cover	Noise Cannon				
2012		Breach/ Damage (Y/N) [†]	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
()	<u> </u>	1	N	Ü	1	N	J.	N	C, L,
	2 J	N	N	<u> </u>	4	N	I	N	C.L,
	× ×	N	_		4	N	N	N	-
······································	3 G	N	<u> </u>		—	X	N	N	Zi-
1/05 7:	AM	N	N	1		N. Commission of the Commissio		7	C, L,
		N	N	1		N	N	2	C. L.
1 6	O() 35 u	N	N	7	<u> </u>	N	N	N	3
	P 4 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	77	<u> </u>	4		N	N	N	
• [[24 7.1	1	27		4-1	N	N. Santana and San	7	C.L.
***************************************	E di X	N						N	C.L
/7 障		77	N	<u> </u>				N	W.
III Pia		N	***************************************	1		and the second s	<u> N</u>	N	
107	^ 1	A	<u>N</u>			N		N	CIL

[&]quot;Yes" (Y) entry equires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRIVWTP 1.02

DATE: 2/26/2001

q/lexcel-rouge/Srwwip oil management insp. log sheet

² "No" (N) entry r quires notification of Plant Supervisor as soon as possible.

³ If live exposed a timals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed a simals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Inspect	icati		Status of I	deterrent S	ystems	Wildlife	Observations		1
Date 2012		Breach/ Damage (Y/N) ¹	ence Location (if Y)	Bank <u>Cover</u> Oiled (Y/N)	Noise Cannon Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspector (Initials)
	JOM BOM BOM		N	1	Y		N	N	
/8	9:00 1:00 1:00		7	7		N		1/2	CL
11/9	7:00 8:00 8:00	M	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Y	¥	W		1	CL
11 17	7,00 1,00 1,00 1,00 1,00 1,00 1,00 1,00	N	4	ý	4	N			A.H.
11/10	70 <u>,</u> 00, 8:04,		N	y	4				A.H.
il I a li):03 AM 1:02 PM	77	77	Y	7			15	AL
11/11	7:00 8:00 8:00	N	N	7	X	orania de la companya del companya de la companya del companya de la companya del la companya de			ALL

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

q/lexcel-rouge/Sruwtp oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion .		Status of 1	deterrent S	ystems	Wildlife	Observations		
			enće	Bank Cover	Noise Cannon				erromontal de la company de la
Date Ting 2012		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. 9r Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspector (Initials)
11/11	1,00 M	17	\	<u> </u>	7	N		N	A. 4.
1	753					1		N	4.4
1/12	7:3¢	N		7	7			1	4
	9,00	N	M	Y	7			N	W.
1 2	1.00 P. A	<u>N</u>	N		Y I	<u>N</u>		<u> </u>	A-14.
1/3	13 13	7	N	7		N	N	N	A.H.
·	9:00	77	77			N	N	N	W
/ n	1:08	N		1		N	V	N	C.L.
	136	N	N	Y	71	M. Santanananananananananananananananananan		AND DESCRIPTION OF THE PERSON	CL
H	7135	_	<u> </u>	<u> </u>	<u> </u>	N			
1131 -	7:00	<u> </u>	7		in the second se	N	N	· ·	CL
	· na fai	N	12 1			N	N		C,L,

^{1 &}quot;Yes" (Y) entry 1 equires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/2t/2001

qu'excel-rouge Srwwtp oil management insp. log sheet

² "No" (N) entry n quires notification of Plant Supervisor as soon as possible.

³ If live exposed a simals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed a itmals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Inspectio	in	·	Status of I	deterrent S	YSlems	Vidite	Observations		The state of the s
Date		Breach/ Damage (Y/N) [†]	ence Location (if Y)	Bank Cover Oiled (Y/N)	Noise Cannon Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Expoxed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
<i>21</i>	1:30M		N	7	1	X	N	N	<u>H</u>
11/2 9	1:00 AM 100	7	<u>N</u>	1	N	N	N	N	O.L.
11/6		7	4 7	<u> </u>		N		N	C.L
11/ 9	?00 ?00	N	4	Y	¥ I			N A	
116 1	00 PM 2/00	N	N	<u> </u>				27	C.L.
	AM DR	1		4	77				RS
		7	4	<u> </u>	7/	\mathcal{X}		Ž,	A.H.
11112 F	100 AM 100 PM			4	4	A.	1/		AU.

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

givexcel-rouge Srwwtp oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Inspec	Licisi		Status of I	deterrent S	ystems	Vidire	Observations		**************************************
	Streether and Spiritary and	F	ence	Bank Cover	Noise Cannon				www.companies.
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Property (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action Taken ³)	Location	Inspecto (Initials
11/18	9:03 M	***************************************		7	7			N	1 A.H.
· · · · · · · · · · · · · · · · · · ·	7.00	n/		<u> </u>				W	A. 4
11/19	87,3	1/	1	<u> </u>	70		1 11/	1	15
111.	900		4	4	1			14	
11/19	1,0% 4	7	N	Υ.	4	N N			4/1
11/10	7:00	1	Λ	V	7				A H
11/00	7.3K.X	The second second second second	<u> </u>			N	N	N	
	9'02 4 1'50 PIA	<u> </u>	\rightarrow	<u> </u>	<u> </u>	//	1.5	75	A-4
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1.000 A	<u>N</u>		<u> </u>	7		4 N	N	A.H.
21	9/3/1	7 7	7				M	<u> </u>	一位
í	11 Z		-72 N			<u> </u>	A CONTRACTOR OF THE PROPERTY O	N	如
	Ţ32,	N	N	7	V 1	N	N	N	CL

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

DATE: 2/20/2001

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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FORM SRWWTP 1.02

DATE: 2/26/2001

qilexcel-rouge Srwwip oil management insp. log sheet

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FORM SRWWTP 1.02

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attexcel-rouge Srwwip oil management insp. log sheet

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A Yes (Y) en ty requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET

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November 15, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: October 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The October monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the October wildlife survey report by MEC Environmental Consulting, and the operators' inspection logs. A Belted Kingfisher carcass was found on the lower slope of the west central bank of the Primary Lagoon on October 17, 2012. The carcass was thinly covered in oil, which did not exhibit the characteristics of oil or oily sludge at the SRWWTP. The carcass will be discussed in a separate report.

Please contact me at (313) 845-3217 or Lan Trinh at 313-323-1260, if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDEQ

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR October 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Wildlife Survey	Appendix A
Inspection Summary and Report Sheets	Appendix B

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period October 1 through October 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

A Wildlife Survey was conducted on October 17, 2012 and a copy of the report is provided in Appendix A. Inspection reports show seasonal activities observed in the general area, and no significant issues at the site were identified. Except, A Belted Kingfisher carcass was found on the lower slope of the west central bank of the Primary Lagoon. The carcass was thinly covered in oil, which did not exhibit the characteristics of oil or oily sludge at the SRWWTP. The carcass will be discussed in a separate report.

On several occasions of black birds, blue herons, killdeers, red wing, and robins were observed using one of the treatment plant impoundments, and were scared off with the air horns. The birds flew or ran away after horn blasts, so persistent hazing with the air horn was necessary.

The summary of daily inspection findings is provided in Appendix B. Copies of the inspection reports are also provided in Appendix B. No repetitive use of the treatment ponds and lagoons was observed in the October inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in October. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures

taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in October 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In October, there were observations of black birds, blue herons, killdeers, red wing, and robins overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix B.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of October 2012.

APPENDIX A

Wildlife Survey

MEC ENVIRONMENTAL CONSULTING

VIA COURIER

November 14, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant: 2012 Wildlife Survey #6

(P. N. 00330)

Dear Jim:

I am very pleased to present the enclosed letter report for the subject project in partial fulfillment of your Purchase Order No. 592351. This survey constitutes the monthly bird survey in accordance with your Continuing Emergency Measures (CEM) Workplan in response to EPA Administrative Order Docket No. R7003-5-00-001.

The October survey was completed on Wednesday, October 17, 2012. A total of 45 sets of five-minute observations was made from 05:30 to 20:23 at five different stations located at significant vantage points at the Schaefer Road Wastewater Treatment Plant (SRWWTP). Observations were made at this frequency in order to ensure a complete and scientifically sound inventory, to ensure quality assurance of the data collected, and to evaluate allegations of wildlife utilization of the impoundments. Observations were both visual and aural. Visual observations were made using Zeiss FL T* 10 x 42 power binoculars. The location of the five stations designated by MEC Environmental Consulting, which have been used in previous surveys and will continue to be used in subsequent surveys, is presented in the first enclosed table.

Weather conditions varied slightly over the period, and were influenced primarily by a strong, advancing low pressure system centered over Manitoba with a warm front extending southeast through the upper Midwest and a cold front extending south through the Dakotas and then west through the central western states, as well as a large but retreating high pressure system centered over the Atlantic coast. Barometric pressure, based on radio-broadcast readings from Detroit Metro Airport, was 29.73 in.-Hg and falling at 05:00, 29.73 in.-Hg and steady at 05:00 and 10:00, 29.72 in.-Hg and falling at noon, 29.69 in.-Hg and falling at 13:00, 29.63 in.-Hg and falling at 17:00, 29.61 in.-Hg and steady at 19:00, and 29.63 in.-Hg and rising at 20:00. Relative humidity, also based on radio broadcast National Weather Service data, was 66% at 06:00, 69% at 10:00, 50% at noon, 45% at 13:00, 42% at 17:00, 46% at 19:00 and 20:00. Sky conditions ranged from cloudy to mostly cloudy in the morning except for a brief period of partly cloudy skies around 09:00, and partly cloudy to mostly clear until around 16:00, and then mostly cloudy for the remainder of the period. Temperatures ranged from 55° F at 05:12, to 56° F around 06:26, 06:35, 09:00, and 09:33, to 61° F around 10:20, to

1003 AMELIA AVENUE

ROYAL OAK, MICHIGAN 48073-2704

VOICE: (248) 585-3800

mecec@comcast.net

FAX: (248) 585-8404

66° F around 11:28 and 12:38, to 69° F at 13:12, to approximately 72° F around 14:00, and then to 71° F at 17:25, and to 67° F around 20:00. Winds were generally out of the south in the morning but shifted to out of the southeast around 06:35 and around 10:20, and out of the southwest around 07:00 for approximately 1-2 hours and then around 10:50. Winds were generally out of the south-southwest in the afternoon, except briefly out of the west-southwest, and out of the south during the evening. Wind speed varied considerably from approximately 5-10 mph until around 11:00, except for brief, almost calm conditions around 06:00, to approximately 10-15 mph until around 13:00, to approximately 15-25 mph with gusts to 35 mph until around for the remainder of the period. There were brief periods of drizzle around 05:38 and 05:59. Light rain began to fall around 20:55. Sunrise was at 07:49; sunset was at 18:48.

A total of 17 bird species was observed within the fenceline of the SRWWTP. This species total is 8 species less than the 2000-2011 October mean of 25. It should be noted that the 2011 October wildlife survey was conducted on the same day under very similar weather conditions (except 10 degrees cooler) and 29 species were observed. It should be emphasized that only 11 of the 17 species observed were found outside the bermed area, and of these 11 only 8 species were observed on the ground or in vegetation (i.e., were not flying over the facility). Only one individual was observed at the water's edge of a pond or lagoon. No birds or only one bird were observed during 20 of the 45 point counts conducted. This information indicates that the habitat modifications and deterrents in-place at the SRWWTP are effective.

One non-human mammalian species was observed during the survey: Eastern Cottontail (*Sylvilagus floridanus*). At 05:32 six Eastern Cottontails was observed by 6 million candlepower spotlight to forage in the grass at the south end of the SRWWTP near the south perimeter fence. At 06:59 one individual was observed to forage in the same area south of the East Sludge Pond.

One reptilian species was observed during the survey: Painted Turtle (*Chrysemys picta*). At 15:37 one individual was observed at the water's edge of the north bank of the Diked Lagoon approximately 35 feet east of the northwest corner. This individual was viewed through binoculars from the top of the north bank of the Diked Lagoon. The carapace appeared to be soiled a dull black such that the scutes were not evident. The head and legs appeared to glisten in the sunlight, suggesting the presence of oil on the turtle. The animal, however, ran very quickly into the water when it detected the wildlife specialist.

One amphibian species was observed during the survey: probable Green Frog (*Rana clamitans*). At 13:32 six probable Green Frogs were observed to jump into the water from the water's edge at the southwest corner of the East Sludge Pond immediately southeast of the Brill skimmer. At 13:35 two probable Green Frogs were observed to jump into the water from the water's edge at the southwest end of the West Sludge Pond. At 13:52 approximately ten probable Green Frogs were observed to jump into the water at the northwest corner of the West Sludge Pond. Only one of these animals was briefly viewed in part (head) through binoculars. This frog did not appear to be oiled, and oil was not observed at the edges of the Sludge Ponds where frogs were

Mr. James E. Earl - November 14, 2012 page 3

observed.

The entire shoreline of each impoundment was systematically checked at least once during the day. Only the shorelines of the Primary Lagoon (except the north end under the net), Diked Lagoon, sludge ponds (except for the inaccessible west side of the West Sludge Pond) and the south side of the Secondary Lagoon, however, were walked due to steep slopes of the rest of the impoundments. The shorelines of these impoundments not walked were searched from top of grade and other angles using binoculars. Animal sign observed during this search is summarized in the third enclosed table. Photographs, including those of animal sign, are enclosed.

One fresh carcass of a Belted Kingfisher (*Ceryle alcyon*) was found on the lower slope of the west central bank of the Primary Lagoon. The carcass was thinly covered in oil, which did not exhibit the characteristics of oil or oily sludge at the SRWWTP. This carcass will be discussed subsequently in a separate report.

If you have any questions regarding this report please call me at (248) 585-3800. Thank you for choosing MEC Environmental Consulting for your wildlife management needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael E. Carlson Principal

enclosures

No.	Location	Vantage Point for
1	Between East and West Sludge	East Sludge Pond
	Ponds, on the south side, between the	West Sludge Pond
	two guard rails	South Clarifier (part)
2	East side of Secondary Lagoon at	Secondary Lagoon
	north end of guard rail opposite the North Clarifier	North Clarifier (most)
3	South central end of Primary Lagoon	Primary Lagoon
	just east of weather station	Timely Lagoon
4	Southeast corner of Diked Lagoon	Diked Lagoon
	_	Secondary Lagoon (except S end)
		Primary Lagoon
5	South Central Side of Bermed Area*	Bermed area*, except west end
		(including dogleg)
		Diked Lagoon

^{*} not a wastewater treatment pond or lagoon

Wednesday, October 17, 2012

Common Name	Scientific Name	Maximum							Notes
		Number	L	С	S	Р	D	В	
Common Loon	Gavia immer		L						
Pied-billed Grebe	Podilymbus podiceps								
Horned Grebe	Podiceps auritus								
Double-crested Cormorant	Phalacrocorax auritus	1	X		X				1, 2, 3, 4
American Bittern	Botaurus lentiginosus								
Great Blue Heron *	Ardea herodias	2	2				Γ	Х	2, 3, 5, 6
Great Egret *	Ardea alba		Γ						
Snowy Egret	Egretta thula								
Green Heron *	Butorides virescens		<u> </u>						
Black-crowned Night-Heron *	Nycticorax nycticorax		Τ	Γ	Γ		T		
Yellow-crowned Night-Heron	Nyctanassa violacea		T						
Glossy Ibis	Plegadis falcinellus		T	T	T				
Turkey Vulture	Cathartes aura		T	Τ		Γ	Г		
Snow Goose	Chen caerulescens		╁	T					
Cackling Goose	Branta hutchinsii		1			T	\vdash		
Canada Goose *	Branta canadensis		T			T	<u> </u>	T	
Mute Swan *	Cygnus olor		╁	1		T	T	\vdash	
Tundra Swan	Cygnus columbianus		T	 		T	1	-	
Wood Duck *	Aix sponsa		†	\vdash	T	t	T	\vdash	
Gadwall	Anas strepera		1	T	T	T		\vdash	
American Wigeon	Anas americana		\dagger	T	\vdash	T	一	一	
American Black Duck *	Anas rubripes		T	T	T	T	T		
Mallard *	Anas platyrhynchos		T	十	┢	T		T	
Blue-winged Teal *	Anas discors		\dagger	T		T	十	╁	
Northern Shoveler	Anas clypeata		十	┪	T	┪	\dagger		
Northern Pintail	Anas acuta		\dagger	T	T	T	T	T	
Green-winged Teal	Anas crecca		T	✝	T	T	T	T	
Canvasback	Aythya valisineria		十	╁	T	 	 	 	
Redhead	Aythya americana		\dagger	T	T	T			
Ring-necked Duck	Aythya collaris		T	T	T	十	T	T	
Greater Scaup	Aythya marila		\dagger	T	t	\dagger	T	_	
Lesser Scaup	Aythya affinis		+	T	t^-	+	+	T	
Long-tailed Duck	Clangula hyemalis		t	t	T	+	T	t^{-}	
Bufflehead	Bucephala albeola		+	 	T	t	T	+-	
Common Goldeneye	Bucephala clangula		╁	\vdash		╁	十	十	
Hooded Merganser	Lophodytes cucullatus		+	\dagger	+	╁	十	t	
Red-breasted Merganser	Mergus serrator		╅	┿	╁	╁	\vdash	+	
Common Merganser	Mergus merganser		+	+	+	+	+	十	
Ruddy Duck	Oxyura jamaicensis		+	+	+	+	+	╁	
Osprey	Pandion haliaetus		+	╀	+	╀	╀	╁	

Common Name	Scientific Name	Maximum	(3)		Αı	ea			Notes
		Number	L	C	S	Р	D	В	
Bald Eagle	Haliaeetus leucocephalus						Γ		
Northern Harrier	Circus cyaneus								
Sharp-shinned Hawk	Accipiter striatus			Π					
Cooper's Hawk *	Accipiter cooperii			Π				Г	
Broad-winged Hawk	Buteo platypterus								
Red-tailed Hawk *	Buteo jamaicensis	1	T					X	1, 2, 3, 7
Rough-legged Hawk	Buteo lagopus					-			
American Kestrel *	Falco sparverius	1	<u> </u>				Х	Х	1, 2, 3, 8
Merlin	Falco columbarius			Г					
Peregrine Falcon	Falco peregrinus								
Ring-necked Pheasant *	Phasianus colchicus		T						
Northern Bobwhite *	Colinus virginianus				Г				
Virginia Rail	Rallus limicola			\vdash					
Sora	Porzana carolina						-		
Common Gallinule	Gallinula galeata		┢	<u> </u>			╅	-	
American Coot	Fulica americana		<u> </u>						
Black-bellied Plover	Pluvialis squatarola							-	
American Golden-Plover	Pluvialis dominica		┢		┢		H	-	
Semipalmated Plover	Charadrius semipalmatus				_				
Killdeer *	Charadrius vociferus	10	Х		X	X	Х	X	2, 3, 5, 9
Greater Yellowlegs	Tringa melanoleuca		T				_		
Lesser Yellowlegs	Tringa flavipes								
Solitary Sandpiper	Tringa solitaria				_		-		· · · · · · · · · · · · · · · · · · ·
Spotted Sandpiper *	Actitis macularius			-					
Whimbrel	Numenius phaeopus		\vdash				-		
Ruddy Turnstone	Arenaria interpres		╁						
Red Knot	Calidris canutus		┢	_		 			**************************************
Sanderling	Calidris alba						-		
Semipalmated Sandpiper	Calidris pusilla			-					
Western Sandpiper	Calidris mauri		T		_			\vdash	
Least Sandpiper	Calidris minutilla							-	
White-rumped Sandpiper	Calidris fuscicollis			-		-		H	
Baird's Sandpiper	Calidris bairdii		Г			┢		-	
Pectoral Sandpiper	Calidris melanotos								
Dunlin	Calidris alpina				_			Н	
Short-billed Dowitcher	Limnodromus griseus			-	-				
Wilson's Snipe	Gallinago delicata		一			-	-		
American Woodcock *	Scolopax minor	·							
Wilson's Phalarope	Phalaropus tricolor		十	\vdash			-		***************************************
Bonaparte's Gull	Chroicocephalus philadelphia		H	\vdash			H	\vdash	
Ring-billed Gull *	Larus delawarensis		H				<u> </u>		
Herring Gull *	Larus argentatus	1	\vdash		H		-	X	1, 2, 3, 10
Thayer's Gull	Larus thayeri	-	H		-		-		-, -, 0, 10
Glaucous Gull	Larus hyperboreus	_	\vdash	\vdash				\vdash	

Common Name	Scientific Name Max				Αr	ea			Notes		
		Number	L	С			D	В			
Great Black-backed Gull	Larus marinus			Г							
Caspian Tern	Hydroprogne caspia										
Common Tern *	Sterna hirundo				Γ		Г	П	***************************************		
Forster's Tern *	Sterna forsteri				┞			M			
Black Tern *	Chlidonias niger				┪	1					
Rock Pigeon *	Columba livia				\vdash		Г				
Mourning Dove *	Zenaida macroura					ļ					
Black-billed Cuckoo	Coccyzus erythropthalmus		†	<u> </u>		-	Г	Н			
Eastern Screech Owl *	Megascops asio			Г			T				
Great Horned Owl *	Bubo virginianus		1	┢		T					
Snowy Owl	Bubo scandiacus		T	一	T		╁				
Short-eared Owl	Asio flammeus		T	┢	╈	-	\vdash	Н			
Common Nighthawk	Chordeiles minor		T			-	┢				
Chimney Swift *	Chaetura pelagica				\vdash	-	┢				
Ruby-throated Hummingbird *	Archilochus colubris		\vdash	┢	╁╴		┢				
Belted Kingfisher *	Ceryle alcyon		f	\vdash	┢	 		Н			
Red-headed Woodpecker *	Melanerpes erythrocephalus		T	H	\vdash		╁	Н			
Red-bellied Woodpecker *	Melanerpes carolinus		\vdash	┢	┢		┢	\vdash			
Downy Woodpecker *	Picoides pubescens		Х	\vdash	┢		\vdash	Х	2, 3, 5, 11, 12		
Hairy Woodpecker *	Picoides villosus		\vdash	╁	 		╁		_, _, _, .,		
Northern Flicker *	Colaptes auratus		+-	╁	H	-	╁				
Eastern Wood-Pewee *	Contopus virens		+	┢	╁	-	-	Н			
Yellow-bellied Flycatcher	Empidonax flaviventris		╁	┢	┢	 -	\vdash				
Alder Flycatcher	Empidonax alnorum		\vdash	╁	-	┢	╁	\vdash			
Willow Flycatcher *	Empidonax traillii		╁	┝	┢	-	-	\vdash			
Least Flycatcher *	Empidonax minimus		╁	┢	╁	\vdash	-				
Eastern Phoebe	Sayornis phoebe		┼	├	\vdash	\vdash	┝	\vdash	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Great Crested Flycatcher *	Myiarchus crinitus		\vdash	├	\vdash	┢	╁┈	\vdash			
Eastern Kingbird *	Tyrannus tyrannus		+	-	┢	╁	┢	\vdash			
White-eyed Vireo	Vireo griseus		╁	┢	-	┝	-	╂╌╂	· · · · · · · · · · · · · · · · · · ·		
Blue-headed Vireo	Vireo solitarius		\vdash	┝	H	H	-	\vdash			
Yellow-throated Vireo *	Vireo flavifrons		╁	╁	-	┝	\vdash	\vdash			
Warbling Vireo *	Vireo gilvus		╁	\vdash	┝	\vdash	\vdash	\vdash			
Philadelphia Vireo	Vireo philadelphicus		╁	╁╴	-	┝	┢	\vdash			
Red-eyed Vireo *	Vireo olivaceus		╁	┝	\vdash	-	┢	H			
Blue Jay *	Cyanocitta cristata		+	\vdash	┢	<u> </u>	╁	\vdash			
American Crow *	Corvus brachyrhynchos		╁	-	╀	├-	-	\vdash			
Horned Lark	Eremophila alpestris		╁	┼	-	┢	╁				
Purple Martin *	Progne subis		╁	╁	-	-	-				
Tree Swallow *	Tachycineta bicolor		╁	┞		1	┢	$\left \cdot \right $			
Northern Rough-winged Swallow*	Stelgidopteryx serripennis		+-	\vdash		-	-	\vdash			
Bank Swallow *	Riparia riparia		╀	\vdash	-	 	-	$\vdash \vdash$			
Barn Swallow *	Hirundo rustica		-	-	+	-	├	$\vdash \vdash$	- Wan		
Cliff Swallow *			-	\vdash	+		+	$\vdash \vdash$			
Oill Swallow	Petrochelidon pyrrhonota		1		L						

Common Name	Scientific Name	Maximum		al valle	٩r	ea			Notes		
		Number	L					В	Company of the Compan		
Black-capped Chickadee *	Poecile atricapillus	1	[П				X	2, 3, 5, 11		
Tufted Titmouse *	Baeolophus bicolor		Г	П							
Red-breasted Nuthatch	Sitta canadensis		T			ヿ					
White-breasted Nuthatch *	Sitta carolinensis		T	П							
Brown Creeper	Certhia americana		†		٦			П			
Carolina Wren *	Thryothorus ludovicianus		T	H	7						
House Wren *	Troglodytes aedon		╁					Н			
Winter Wren	Troglodytes hiemalis		T								
Sedge Wren	Cistothorus platensis		T					П			
Marsh Wren	Cistothorus palustris		<u> </u>				Т	П			
Blue-gray Gnatcatcher	Polioptila caerulea		╁				-				
Golden-crowned Kinglet	Regulus satrapa		T	\vdash							
Ruby-crowned Kinglet	Regulus calendula		†	f							
Eastern Bluebird	Sialia sialis			H							
Veery	Catharus fuscescens		╁╴	f	-		-				
Gray-cheeked Thrush	Catharus minimus		╁╴								
Swainson's Thrush	Catharus ustulatus		╁	H							
Hermit Thrush	Catharus guttatus		+	\vdash	-			\vdash			
Wood Thrush *	Hylocichla mustelinus		╁	\vdash			-	Н			
American Robin *	Turdus migratorius	44	X	H	Х	X	X	x	2, 3, 5, 13		
Gray Catbird *	Dumetella carolinensis		1			_	<u> </u>		_, 0, 0, 10		
Northern Mockingbird	Mimus polyglottos		╁╴	\vdash	-	_	-	\vdash			
Brown Thrasher *	Toxostoma rufum		 	H		\dashv	H	\vdash			
European Starling *	Sturnus vulgaris	253	X	\vdash	X	X		Х	2, 3, 14, 15		
American Pipit	Anthus rubescens	200	1^	\vdash	$\stackrel{\wedge}{\dashv}$	$\stackrel{\wedge}{\dashv}$	\vdash		2, 0, 14, 10		
Cedar Waxwing *	Bombycilla cedrorum		╀	H	\neg		\vdash	H			
Blue-winged Warbler	Vermivora cyanoptera		╀	┼┼		-		Н			
Golden-winged Warbler	Vermivora cyanoptera Vermivora chrysoptera		╀	H		_		H			
Tennessee Warbler	Oreothlypis peregrina		╀	\vdash	-			\vdash			
Orange-crowned Warbler	Oreothlypis celata		-	\vdash	\dashv	-		\vdash			
Nashville Warbler *	Oreothlypis ruficapilla		╁	H				H			
Northern Parula	Setophaga americana		╀		_	_	<u> </u>	\vdash			
Yellow Warbler *	Setophaga petechia		┼	H			_	\vdash			
Chestnut-sided Warbler	Setophaga peresylvanica		╁	\vdash	-		<u> </u>	\vdash			
Magnolia Warbler	Setophaga magnolia		\perp	\vdash	_		ļ_	\vdash			
Cape May Warbler	Setophaga tigrina		+	╀┦			ļ		——————————————————————————————————————		
Black-throated Blue Warbler	, , , ,		╀	\square							
Yellow-rumped Warbler	Setophaga virens Setophaga coronata		_	-	X		-		0.0 5.40		
Black-throated Green Warbler			\downarrow	\vdash	^		<u> </u>	Х	2, 3, 5, 16		
Pine Warbler	Setophaga virens		╀-	\square			_				
	Setophaga pinus		1	\sqcup			L	\blacksquare			
Prairie Warbler	Setophaga discolor		\bot	\sqcup			_				
Palm Warbler	Setophaga palmarum		_	\sqcup			_	\sqcup			
Bay-breasted Warbler	Setophaga castanea		ļ.								
Blackpoll Warbler	Setophaga striata	_ 2	2 X		Χ				2, 3, 5, 17		

Common Name	Scientific Name	Maximum	4.75 2.50	7	rea	3		Notes
		Number	I			םוי	В	
Cerulean Warbler	Setophaga cerulea							
Black-and-white Warbler	Mniotilta varia					\sqcap		
American Redstart	Setophaga ruticilla							
Prothonotary Warbler	Protonotaria citrea				T		\top	
Ovenbird *	Seiurus aurocapilla				1		-	
Northern Waterthrush	Parkesia noveboracensis		П	7		\Box		
Mourning Warbler *	Geothlypis philadelphia			\top	+			
Common Yellowthroat *	Geothlypis trichas		П	\top		\Box		
Wilson's Warbler	Cardellina pusilla			\top	Ť		\top	
Canada Warbler	Cardellina canadensis		П			11	\top	
Yellow-breasted Chat	Icteria virens				\dagger	††	\top	
Scarlet Tanager *	Piranga olivacea			\top	+	11	\top	
Eastern Towhee *	Pipilo erythrophthalmus	1		1	╅			
American Tree Sparrow	Spizella arborea			\top	\dagger	11		
Chipping Sparrow *	Spizella passerina			+	十	\forall	-	
Field Sparrow *	Spizella pusilla		H		+-	$\dagger \dagger$	\top	
Vesper Sparrow *	Pooecetes gramineus		H	_	+	$\dagger \dagger$	+	
Savannah Sparrow *	Passerculus sandwichensis			\dashv	+	$\dagger \dagger$	+	
Grasshopper Sparrow	Ammodramus savannarum			\dashv	+	H	\dashv	
Henslow's Sparrow	Ammodramus henslowii		H	_	+	H	\dashv	
Fox Sparrow	Passerella iliaca	<u> </u>		\dashv	+	+	\dashv	
Song Sparrow *	Melospiza melodia	12	X	١,		x	Х	5, 18
Lincoln's Sparrow	Melospiza lincolnii			\dashv	\dagger	+	+	-,
Swamp Sparrow *	Melospiza georgiana	2		+	+	+	Х	2, 3, 5, 11
White-throated Sparrow	Zonotrichia albicollis		H	\dashv	+	++	+	
White-crowned Sparrow	Zonotrichia leucophrys	2	X	+	+	++	x	2, 3, 5, 11, 19
Dark-eyed Junco	Junco hyemalis			_	+	++		
Lapland Longspur	Calcarius Iapponicus		Н	\dashv	+	+	+	
Snow Bunting	Plectrophenax nivalis		\vdash	╫	+	H	\dashv	
Northern Cardinal *	Cardinalis cardinalis	1	Н	+	+	+	x	2, 3, 11
Rose-breasted Grosbeak *	Pheucticus Iudovicianus	<u>'</u>	H	+	+	╁┼		2, 0, 11
Indigo Bunting *	Passerina cyanea		\dashv	-	-	++	+	
Dickcissel	Spiza americana		\dashv	十	+	H	+	
Bobolink *	Dolichonyx oryzivorus		\dashv	-	+-		\dashv	
Red-winged Blackbird *	Agelaius phoeniceus	170	\dashv	一,	1	++	x	2, 3, 5, 20
Eastern Meadowlark *	Sturnella magna			Ť	╫	H	+	2, 0, 0, 20
Rusty Blackbird	Euphagus carolinus		Н	+	-	+	+	
Common Grackle *	Quiscalus quiscula		H	-		+	_	
Brown-headed Cowbird *	Molothrus ater		Н	+	-	╁┼	+	
Orchard Oriole *	Icterus spurius		H	-	-	+	+	
Baltimore Oriole *	Icterus galbula		-	\dashv	+	+	_	
Purple Finch	Haemorhous purpureus		${\mathbb H}$	\dashv	+	++	+	
House Finch *	Haemorhous mexicanus		ert	_	+	╁┼	-	
Red Crossbill	Loxía curvirostra	<u> </u>	$\vdash \vdash$	\dashv	+	╁┼		
I ved O1099biii	LUNIA CUI VII USLIA		Ш		1_			

Common Name	Scientific Name	Maximum				ea			Notes
		Number	L	C	S	P	D	В	
White-winged Crossbill *	Loxia leucoptera			Γ					
Common Redpoll	Acanthis flammea		Т	T		<u> </u>	T		
Pine Siskin *	Spinus pinus			 		_	T		
American Goldfinch *	Spinus tristis		Γ	Г			┢		
Evening Grosbeak	Coccothraustes vespertinus		Г				Т		
House Sparrow *	Passer domesticus		Т	T			T		
SPECIES TOTAL		17							Out of HELDER HOLDS VOLUME

LEGEND

Number means the maximum total observed within the fenceline at the facility; effort was made to avoid any double-counting.

* Indicates species known or suspected to breed in the general area encompassing the site based on generalized state maps (showing county boundaries) presented in "The Atlas of Breeding Birds of Michigan" by R. Brewer et al. (MSU Press: East Lansing, 1991). It should be emphasized that many of the species indicated as breeding birds have specific habitat requirements that are not met by the industrial environment at the Schaefer Road Wastewater Treatment Plant (SRWWTP) and the surrounding area. Thus, species marked with an asterisk above should not be assumed to breed at or even adjacent to the SRWWTP.

Species list adapted from "Bird Checklist of Michigan" (Thayer's Birding Software, 1999) considering habitat provided by site and immediately surrounding areas. Nomenclature is based on the 53rd Supplement to the American Ornithologists' Union "Checklist of North American Birds" (2012).

Bird data collected at five different stations over five-minute intervals throughout the day. Survey performed by Michael Carlson from 5:30 AM to 8:00 PM.

X indicates observations made. It should be emphasized that "X" means that the species was observed within the fenceline of the SRWWTP in proximity to the particular impoundment and, unless otherwise noted, not on or in contact with the water or immediately adjacent to the water at a particular impoundment. In many cases, the species was observed flying over the pond, sometimes higher than 200 feet.

Impoundment Designations:

- L Sludge Ponds
- C Clarifiers
- S Secondary Lagoon
- P Primary Lagoon
- D Diked Lagoon

Other Area Designations:

B Bermed Area

Wednesday, October 17, 2012

NOTES

- 1. Individual(s) observed flying over the SRWWTP.
- 2. Individual(s) showed no interest in water surfaces of the SRWWTP wastewater treatment ponds and lagoons.
- Individual(s) was not observed at or near the water's edge of any of the wastewater treatment ponds and lagoons.
- 4. At 11:44 one probable adult was observed to fly directly northwest over the Sludge Ponds and the south end of the Secondary Lagoon at an estimated height of approximately 100-120 feet above ground surface before exiting the SRWWTP.
- 5. Individual(s) likely recently arrived migrant(s) or still in the process of migration.
- 6. Around 09:44 one adult was observed to fly north over the dogleg of the bermed area at an estimated height of 50-70 feet above ground surface. As it approached the north end of the dogleg, the bird was observed to turn momentarily east and then west and to descend into a cottonwood at the west end of the bermed area proper. Around 18:55 presumably a different individual was observed to call once and to fly north over the dogleg of the bermed area. At the north end of the dogleg the bird was observed to make a U-turn and to fly south and to land in a cottonwood at the east central edge of the dogleg of the bermed area. The same bird was observed perched in the cottonwood around 19:02. These individuals were viewed through binoculars albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on either individual. It should be noted that oil would likely have been apparent on the birds due to the pale gray neck and whitish face and whitish marginal coverts which are characteristic of this species.
- 7. Around 18:12 one adult was observed to hunt as it flew south over the Rouge River floodplain west of the SRWWTP at an estimated height over approximately 150 feet above ground surface. The bird was observed to glide east to the west edge of the bermed area at the same altitude before continuing southwest and exiting the SRWWTP. This individual was viewed through binoculars albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been apparent on this bird due to the whitish throat, breast, vent, undertail coverts, and underwing coverts as well as the light red coloration of the tail which generally characterize the adult plumage of this species.
- 8. At 11:00 one individual was observed to call as it quickly flew east over the dogleg of the bermed area and over the Diked Lagoon. Around 11:03 presumably the same individual was observed to fly west over the bermed area proper at an estimated height of approximately 50-60 feet above ground surface. This individual was viewed briefly through the naked eye and binoculars. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been apparent, due to the white patches on the head, white vent, and white undertail coverts as well as the pale gray-brown underparts of the bird that characterize the plumage of this species.
- 9. Around 05:38 two individuals were observed to call from what sounded like the plain west of the Primary Lagoon. Around 05:49 one individual was observed to immediately alarm call from the road north of the Primary Lagoon when the wildlife specialist turned on the 6 million candle-power spotlight on top of the southeast slope of the Diked Lagoon at Station No. 4. At 05:58 one individual was observed to call and to fly north over the Diked Lagoon and bermed area proper at an estimated height of approximately 30-50 feet above ground surface. Around 05:59 one individual was observed to call from what sounded like the plain west of the Primary Lagoon. At 06:09 three individuals were observed to alarm call and flush from the plain west of the Primary Lagoon due presumably to the approach of the wildlife specialist. Around 06:26 two individuals were observed to rest in the grass immediately north of the south perimeter fence. After being spot lit the birds alarm called and apparently flew off because they were not seen during the second sweep of the spotlight. At 19:23 one

Wednesday, October 17, 2012

NOTES

(Continued)

individual was observed to fly south over the bermed area proper and Diked Lagoon. Seconds later the Diked Lagoon propane cannon fired and presumably the same bird was observed to fly north. At 19:26 one individual was observed to call from what sounded like the main north-south road between the Primary and Secondary Lagoons. Around 19:35 one individual was observed to call as it flew south-southeast over the bermed area proper and the Diked Lagoon at an estimated height of approximately 80-100 feet above ground surface. Seconds later a different individual was observed to call from what sounded like the airspace over the plain west of the Primary Lagoon. Only two or three individuals were actually seen but only viewed through the naked eye, not binoculars- two at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on either of these individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white eyebrow (adult only), forehead, throat, collar (adult only), lower breast (adult only), vent, wing stripe, tail tip, and underwing coverts that characterize the plumage of this species.

- 10. At 0759 one third or fourth year individual was observed to fly west over the bermed area proper at an estimated height of approximately 100-150 feet above ground surface. This individual was viewed very briefly through the naked eye and binoculars. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been very apparent on especially the third and fourth year adults, due to the birds' prominent white plumage on the head, breast, belly, and underwing.
- 11. Individual heard, but not seen.
- 12. Around 08:10 one individual was observed to call from the bermed area proper. At 08:24 one individual was observed to call from the dogleg of the bermed area. Around 09:53 presumably a different individual was observed to call from the dogleg of the bermed area. Around 10:20 one individual was observed to call from what sounded like the trees along the east perimeter fence south of the southeast gate east of the East Sludge Pond. Around 11:03 presumably a different individual was observed to call from the bermed area proper.
- 13. Around 08:18, 08:24, and 18:12 one individual was observed to call from the bermed area. Around 08:31 one individual was observed to call from the bermed area, and presumably a different individual was observed to call from the airspace over the Diked Lagoon. Around 08:51 four individuals were observed to forage in the grass near the east perimeter fence south of the southeast gate. Around 09:53 two individuals were observed to call from the bermed area, and presumably a different individual was observed to fly south over the bermed area proper and Diked Lagoon at an estimated height of approximately 80-100 above ground surface. This individual was observed to flinch in response to the Diked Lagoon propane cannon firing, and was observed over the north side of the Diked Lagoon to re-direct its flight to the east. At 10:01 three individuals were observed to call from the dogleg of the bermed area. Around 11:03 two individuals were observed to fly south over the bermed area proper and then to make a U-turn and to dive into the bermed area proper. At 16:54 two individuals were observed to forage in the grass outside the Primary Lagoon fence near the southeast corner of the fence. Both birds were observed to flush and to fly east in response to the Inland Waters vactor approaching. Seconds later five additional individuals were observed to flush from the top of the southeast bank of the Primary Lagoon (at least two from inside the fence) and to fly east. Approximately 10 to 20 seconds later all seven individuals were observed to fly back west. One of the birds was observed to land on top of the east side of the Primary Lagoon fence approximately 25 feet north of the southeast gate. A second bird was observed to forage in the grass at the top of the west central bank of the Secondary Lagoon. At 16:59 a group of 11 individuals was observed to forage in the grass of the plain south of the Primary Lagoon near the Primary Lagoon fence. Around the same time four individuals were observed to fly west over the south end of the Primary Lagoon at an estimated height of approximately 15-25 feet above ground surface, and two individuals were observed to rest atop the south end of the Primary Lagoon fence. At 18:04 one individual was observed to rest atop the blue drum near the west perimeter fence opposite the center of the plain west of the Primary Lagoon. At 18:06 four individuals were observed to forage in the plain west of the Primary Lagoon. Around 17:52 one individual was observed to call from the airspace over the Primary Lagoon. Around 19:02 one individual was observed to call from the bermed

Wednesday, October 17, 2012

NOTES

(Continued)

area, and presumably a different individual was observed to call from the airspace over the Diked Lagoon. Several of these individuals were viewed through both the naked eye and binoculars at close range. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that oil would likely have been apparent on these birds, due to the yellow bill, orangish breast and belly, white undertail coverts and white tail spots which are characteristic of the plumage of this species.

- 14. Not a protected migratory bird.
- 15. Around 08:51 one individual was observed to call from the electrical wire over the southeast gate of the east perimeter gate. Approximately 60 seconds later two individuals were observed to forage in the grass near the east perimeter fence south of the southeast gate. Around 09:33 one individual was observed to fly east over the Secondary Lagoon at an estimated height of approximately 150-180 feet above ground surface. Around 09:44 one individual was observed to sing from the bermed area. Around 09:53 a flock of 40 individuals was observed to fly west over the bermed area, some momentarily perching in trees of the bermed area proper before flying on. At the same time 54 individuals were observed to rest in the trees of the bermed area proper. Many of these perched birds were also observed to vocalize. Around 10:39 one individual was observed to rest atop the light on the utility pole at the top of the northeast bank of the Primary Lagoon. Based on the bird's head movements, this individual was also likely singing. Around 10:50 one individual was observed to sing from the bermed area, and a group of 41 individuals was observed to fly south over the dogleg of the bermed area at an estimated height of approximately 20-50 feet above ground surface. At the same time three individuals were observed in a tree in the dogleg of the bermed area. Around 11:03 one individual was observed to fly over the bermed area. Approximately 60-120 seconds later one individual was observed to rest in a tree, and 18 individuals were observed to fly south over the dogleg of the bermed area at an estimated height of approximately 50-60 feet above ground surface. Around 18:12 a group of 26 individuals was observed to fly south over the dogleg of the bermed area at an estimated height of approximately 60-80 feet above ground surface. Around 18:23 one individual was observed to fly over the dogleg of the bermed area at an estimated height of approximately 200-250 feet above ground surface. At the same time 19 individuals were observed to fly south over the dogleg of the bermed area, and three individuals were observed to rest in trees there. Around 18:34 eleven individuals were observed to fly south over the Secondary Lagoon and Sludge Ponds at an estimated height of approximately 80-100 feet above ground surface. Approximately 120-180 seconds later a group of 32 individuals was observed to fly north over the dogleg of the bermed area. Individuals were observed throughout the day to be imitating a variety of species, including Killdeer, Yellow-rumped Warbler, American Robin, and Horned Lark.
- 16. At 07:57 one individual was observed to call from a pine south of the northeast gate of the west perimeter fence and northeast of the grit chambers. At 08:02 presumably a different individual was observed to call from the bermed area. Around 08:24 two individuals were observed to call from the bermed area proper. At 10:01 presumably a different individual was observed to call from the dogleg of the bermed area. Around 11:03 one individual was observed to forage in a tree at the south central edge of the bermed area proper near Station No. 5. Around 19:02 presumably a different individual was observed to call from the east end of the bermed area proper. Only two individuals were viewed through binoculars albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on either of these individuals. It should be noted that oil would likely have been apparent due to the white broken eye-ring, pale throat and belly, and white wing-bars which characterize the fall plumage of this species.
- 17. Around 07:46 one individual was observed to call from what sounded like the airspace over the southeast bank of the Secondary Lagoon. Around 10:20 a warbler believed to be a Palm Warbler was observed to call regularly from the trees along the east perimeter fence south of the southeast gate as the wildlife specialist was at Station No. 1. Due to significant noise from the Inland Waters vactor operating in the plain south of the Primary Lagoon, the wildlife specialist could not be certain of the identification of the call note. After walking towards the area

Wednesday, October 17, 2012

NOTES

(Continued)

south of the gate, the wildlife specialist at 10:26 heard a Blackpoll Warbler calling and observed the same birdan immature (first fall bird)- foraging in the pines south of the southeast gate. No Palm Warbler was seen or heard. The bird was observed to give its typical call as well as its alternate, louder, inflected call note which suggests that of Magnolia Warbler. Around 17:34 possibly the individual observed earlier in the morning was observed to call from what sounded like the pines northeast of the northernmost shed north of the north clarifier. Only the one bird was actually seen. This bird was viewed through binoculars for approximately one to two minutes. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on this bird due to the white belly and undertail coverts, white wing-bars, pale yellow breast, and light-colored feet which characterize the immature plumage of this species in the fall.

- At 07:20 two individuals were observed to call from the dogleg of the bermed area: one from the south end and 18. one from the north end. Around 07:25 one individual was observed to call from what sounded like the southwest bank of the Secondary Lagoon near the former skimmer at the west junction of the north and south diagonal booms. Around 07:34 one individual was observed to forage in the grass at the top of the southeast bank of the West Sludge Pond several feet north of the Brill skimmer tank. At 08:06 and around 08:10 one individual was observed to call from what sounded like the east outer slope of the Diked Lagoon. Around 18:18 and 08:24 one individual was observed to call from the bermed area. Around 11:28 presumably the same individual seen at 07:34 was observed to forage in the vegetation at the top of the east slope of the East Sludge Pond immediately north of the Brill skimmer tank. At 12:04 one individual was observed to flush from the northeast bank of the West Sludge Pond approximately 15 feet south of the northeast corner of the lagoon, and to fly south over the West Sludge Pond approximately 1-2 feet above the net. This individual was observed to land on top of the net immediately north of the south aerator for several seconds and then to fly a short distance into the Phragmites approximately 5 feet northwest of the Brill skimmer. At the same time another individual was observed to call from what sounded like the southwest bank of the East Sludge Pond immediately north of the Brill skimmer tank. At 13:43 one individual was observed to call and to forage near the base of some Phragmites at the water's edge of the north central bank of the West Sludge Pond under the net. Likely in response to the approach of the wildlife specialist, the bird was observed to fly a short distance north under the net toward the top of the north central bank of the West Sludge Pond. At 13:47 presumably the same individual was observed to flush from the water's edge of the north bank of the West Sludge Pond approximately 10 feet west of the initial observation and to fly west towards the north bank under the net. Seconds later the bird was observed perched on top of the net immediately south of the north bank and, after a second or two, was observed to fly west above the net. Around 18:55 one individual was observed to call from the south outer slope of the Diked Lagoon. Around 19:02 one individual was observed to call from the bermed area proper. At the same time another individual was observed to call from the dogleg of the bermed area. The individuals seen were observed briefly through binoculars and, in the case of the individual observed at 13:43, through the naked eye at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that oil would likely have been apparent on these birds, due to the whitish throat, belly, and undertail coverts as well as the pale supercilium and submoustachial stripe which characterize the adult plumage of the eastern race of this species.
- 19. At 07:19 one individual was observed to call from the dogleg of the bermed area. Around 07:34 one individual was observed to call from what sounded like vegetation along the west perimeter fence adjacent to the West Sludge Pond.
- 20. Around 07:09 one individual was observed to sing from the *Phragmites* of the bermed area proper. At 08:02 a flock of 80 individuals was observed to fly southeast over the bermed area at an estimated height of approximately 200-250 feet above ground surface. At the same time 3 individuals were observed to fly south at an estimated height of approximately 175-200 feet above ground surface. At 08:06 seven individuals were observed to fly southeast over the bermed area and exit the SRWWTP at an estimated height of approximately

Wednesday, October 17, 2012

NOTES

(Continued)

180-200 feet above ground surface. Around 08:10 seven individuals were observed to vocalize in the bermed area proper, including at least 3 individuals singing. At the same time 44 individuals were observed to rest in trees of the bermed area; all but 7 being in the dogleg. Nine individuals were observed to vocalize in the bermed area around 08:18. At the same time 13 of the 44 individuals observed previously were still resting in trees in the bermed area. Around 08:24 eight individuals were observed to sing from the bermed area proper. At the same time one individual was observed to fly over the bermed area. Also at 08:24 five individuals of the original 44 observed were still resting in trees in the bermed area. Around 08:31 three individuals were observed to call from what sounded like the east perimeter fence north of the northeast gate. At the same time two individuals were observed to rest in a tree in the dogleg of the bermed area. Around 09:53 three individuals were observed to sing from the *Phragmites* and *Typha* of the bermed area proper. Around 18:12 ten individuals were observed to vocalize in the bermed area proper, including six individuals singing. Around 18:23 three individuals were observed to call from the bermed area, and 6 individuals were observed to rest in trees at the bermed area. Around 19:02 two individuals were observed to call from the bermed area.

SCHAEFER ROAD WASTEWATER TREATMENT PLANT

ANIMAL SIGN OBSERVED

DATE: <u>10-17-12</u>

1	Type:	Species:	certain	#:		fresh		soiled
	burrow	NORWAY RAT	probable probable	1		relatively fresh		appears to be oiled
			possible possible			relatively old	T	no oil apparent
	Location: mi	d-slope of north central bank of East		1	T	old	௱	damaged
	Sludge Pond	at the 2 nd I-Beam post from	Status: probab	lv.	F	very old	E	rom NA
	northeast co	mer under net.	active	'y		residual	¬,	dividual(s)
	1101410401001	mor ander not.		_ 1	1	<u> </u>	_	
			Based on: not	observe	ea	in previous	-	ehavior:
			surveys				N,	A
		zing Basis:						
ĺ	4 no	ne – too difficult to place						
	Additional Signal	gn Present: none	Note:					
L]							
2	Type:	Species:	certain	#:		fresh	-	soiled
l	burrow	EASTERN COTTONTAIL	□ probable	1		relatively fresh		appears to be oiled
	Danow	ENOTERN GOTTONTALE	possible possible] `	X	relatively old		no oil apparent
	Location: ne	ar top of south bank of the				old		damaged
		agoon, approximately 6 feet west of	Status: probab	ly		very old	Fr	rom NA
		of guardrail section closest to the	active			residual	in	dividual(s)
	belt skimmer		Based on: fly p	resent	at ·	entrance	Be	ehavior:
							N/	A
	Photo #: Siz	zing Basis:						
		ch ruler						
	Additional Sig	n Present: none	Note: Entrance	faces	noi	rth.		
3	Туре:	Species:	certain	#:		fresh	T	soiled
	burrow	WOODCHUCK	⊠ probable	2		relatively fresh		appears to be oiled
	bullow	VVOODCHOCK	possible	1-		relatively old		no oil apparent
	Location: at t	the top of the southeast bank of the				old		damaged
	Secondary La	agoon approximately 6-8 feet	Status: probabl	ly	\boxtimes	very old		om NA
	southwest of	belt skimmer	inactive			residual		dividual(s)
			Based on: vege	etation	an	d slag mostly		ehavior:
			filling entrance			,,	N/	
	Photo #: Siz	ring Basis:	1					
	none NA	-						
	Additional Sig	n Present: none	Note:					
		•						
4	Туре:	Species:	certain	#:		fresh	П	soiled
		WOODCHUCK	□ probable	1		relatively fresh	同	
			possible			relatively old	靣	no oil apparent
	Location: mic	d-slope of east central side of				old		damaged
	Secondary La	goon approximately 12 feet	Status: possibly	/	\boxtimes	very old		om NA
	southwest of	double yellow standpipe	inactive			residual	ind	dividual(s)
			Based on: no o	bvious	mo	odification to	Вє	ehavior:
			entrance				N/	4
	Photo #: Siz	ing Basis:	1					
	none NA							
	Additional Sig	n Present: none	Note:				I	
	- Joseph John Company Company Company Comment Company	M000 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0						
5	Type:	Species:	☐ certain	#:		fresh		soiled
	burrow	WOODCHUCK	□ probable	3		relatively fresh		appears to be oiled
ļ			possible possible			relatively old		no oil apparent
		der southwest foundation of						damaged
		t top of northeast bank of	Status: probabl	у		very old	Fr	om NA
	Secondary La	goon	active			residual	inc	dividual(s)
ı			Based on: Woo				Вє	havior:
İ			burrow entrance	e at cor			NA	4
ļ	Photo #: Siz	ing Basis:	during Septemb	oer 201	1 s	survey.		
L	none NA	_	during Septemb	oer 201	1 s	survey.		
	none NA	ing Basis: п Present: none	during Septemb Note:	per 201	1 s	survey.		

SCHAEFER ROAD WASTEWATER TREATMENT PLANT

ANIMAL SIGN OBSERVED

DATE: <u>10-17-12</u>

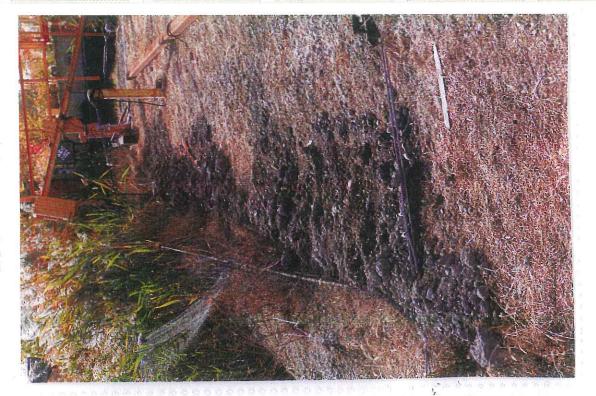
6	Type:	Species:	☐ certain	#:		fresh		soiled
	track	COYOTE	□ probable	_3		relatively fresh		appears to be oiled
			possible			relatively old		no oil apparent
	Location: ea	st side of road opposite southwest	☐ found before			old		damaged
	corner of Dik	ed Lagoon	Status: NA			very old		rom 1 individual(s)
		<u> </u>				residual	٦.	ioni i mairiadal(o)
			Based on: NA				R	ehavior:
								alking
	Photo #: Siz	zing Basis:	-				**	aiking
	I I	ch ruler					İ	
	 							
	Additional Si	gn Present: none	Note: Lobed, to	iangul	ar f	nind pad indicat	tes	Coyote rather than
			Red Fox.	and the second second				
7	Type:	Species:	☐ certain	#:		fresh		soiled
	burrow	WOODCHUCK	□ probable	1		relatively fresh		appears to be oiled
			possible	1		relatively old] по oil apparent
		tside (1 foot east of) east side of				old		damaged
		oon fence, approximately 8 feet north		ly		very old		rom NA
		near northeast corner of Primary	active			residual		dividual(s)
	Lagoon		Based on: entr	ance a	ppe	ears to have	B	ehavior:
			been modified	slightly	/		N	A
		zing Basis:						
	none NA							
	Additional Sig	gn Present: none	Note: Likely co	nnecte	d to	o Item 8.		
· Faring suppose								
8	Туре:	Species:	☐ certain	#:	Ī	fresh	T	soiled
	burrow	WOODCHUCK	□ probable	1		relatively fresh		appears to be oiled
			☐ possible]		relatively old		no oil apparent
		d-slope of northeast bank of Primary						damaged
	Lagoon, appr	oximately 15 feet northwest of utility	Status: probabl	У		very old		om NA
	pole		active		-	residual	in	dividual(s)
			Based on: entra	ance a	ppe	ears to have		ehavior:
			possibly been r	nodifie	d ir	recent past	N	Α
		ing Basis:				•		
	none NA							
	Additional Sig	n Present: none	Note: Likely cor	necte	d to	Item 7.		
9	Type:	Species:	⊠ certain	#:		fresh		soiled
	track	GREAT BLUE HERON	□ probable	7		relatively fresh	愩	appears to be oiled
			possible possible			relatively old		no oil apparent
		sternmost three feet of the top of	found before			old		damaged
- 1	weir at south	end of Primary Lagoon	Status: NA			very old	Fr	om 1 individual(s)
Į						residual	<u> </u>	
İ			Based on: NA					ehavior:
ŀ	Di-1-" 10:						sta	anding
ŀ		ing Basis:	ļ					
	none NA							
	Additional Sig	n Present: none	Note:					
				a Marian palagraphy and from		and the second s	-	
- 1	- /	Species:		#:		fresh		soiled
	track	GREAT BLUE HERON	probable	~5		relatively fresh		appears to be oiled
-	Location: An-	provimately 5-9 fact aget of the+	☐ possible ☐ found before			relatively old		no oil apparent
	end of the ton	proximately 5-8 feet east of the west of weir at south end of Primary	Status: NA			old very old		damaged
	end of the top Lagoon	or were at south end of Filliary	Gialus, IVM			residual	rre	om 1 individual(s)
	_agoon		Based on: NA		<u> </u>	.0010441	Ro	havior:
			- 555 G OIL 1971					anding
r	Photo #: Sizi	ing Basis:					Sic	anumy
	none NA							
- ⊢		n Present: none	Note:				Щ	
1,	.aditional olg	TT TOOME HONG	INUIG.					
- 1								

SCHAEFER ROAD WASTEWATER TREATMENT PLANT

ANIMAL SIGN OBSERVED

DATE: <u>10-17-12</u>

11	Type:	Species:	certain	#:			┵	soiled
	track	COYOTE	☐ probable	2	K	relatively fresh		appears to be oiled
			□ possible			relatively old		no oil apparent
	Location: we	est side of west perimeter road	found before			old		damaged
	opposite TV	F bridge and approximately 20 feet	Status: NA			very old	F	rom 1 individual(s)
		pipeline marker				residual		· · · · · · · · · · · · · · · · · · ·
		•	Based on: NA		- 1		R	ehavior:
								ossibly walking
	Photo #: Si	zing Basis:	-					occiony maining
		zing basis. ch ruler						
	ļ l						٠	
	Additional Si	gn Present: none	Note: .					
.		The state of the s			-posts		يوسومة	
l	Туре:	Species:	certain	#:		fresh	旦	soiled
			probable			relatively fresh	<u> </u>	appears to be oiled
	1		possible			relatively old		no oil apparent
	Location:		found before			old		damaged
	j		Status:			very old residual	_	rom
					Ш	residual		dividual(s)
			Based on:				B	ehavior:
	<u> </u>							
	Photo #: Si:	zing Basis:						
							┸	
	Additional Signal	gn Present:	Note:					
					-			
	Туре:	Species:	certain	#:		fresh		soiled
			probable	1		relatively fresh		
ĺ			possible			relatively old		no oil apparent
	Location:		found before		+==	old		damaged
			Status:				⊣ ' '	rom
					Ш	residual		dividual(s)
			Based on:				Be	ehavior:
	Photo #: Sîz	zing Basis:						
	Additional Sig	gn Present:	Note:					
-						220000	O Commence	w/2007011 - 000000/dd - 0000000000000000000000000
	Type:	Species:		#:		fresh		soiled
			☐ probable			relatively fresh		appears to be oiled
			possible			relatively old		no oil apparent
	Location:		found before			old		damaged
			Status:			very old	4	om
			D		ш	residual		dividual(s)
			Based on:				∣Be	ehavior:
	B) (" le:		4					
	Photo #: Siz	ring Basis:					ŀ	
	Additional Sig	gn Present:	Note:					
	Т	0	[]	.,	7-1	-	7	
	Type:	Species:		#:		fresh		soiled
			probable possible			relatively fresh		appears to be oiled
	Location:		found before			relatively old old		no oil apparent damaged
į	Locatori.		Status:			very old		om
İ			Juliu.	i		residual	3	dividual(s)
			Based on:					ehavior:
			Dassu Off.				De	riaviui.
	Photo #: Siz	ing Basis:	-					
	1 11010 #. O12	any basis.						
Ì	Additional Ci-	n Dropont	Note					
Į	Additional Sig	pirioseiil.	Note:					
			1					







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - morning #1: ..Top of southwest bank of East Sludge Pond, looking south from approximately 30 feet north of Brill skimmer tank. Note slag backfill atop outer netting frame in order to close any pens under the frame to prevent wildlife entry.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

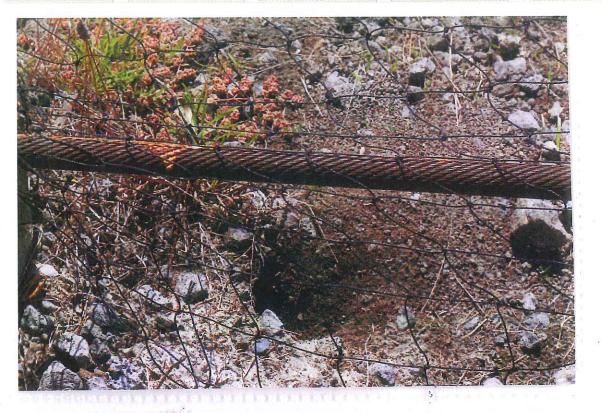
Photographed by Michael Carlson October 17, 2012 - morning

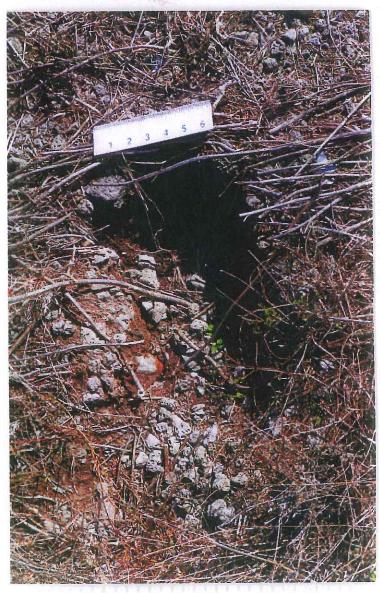
#2: East Sludge Pond, looking east from approximately 30 feet north of Brill skimmer tank. Note netting, spacer drums, and east perimeter fence in-place. Southeast gate at center, and south clarifier at far left.

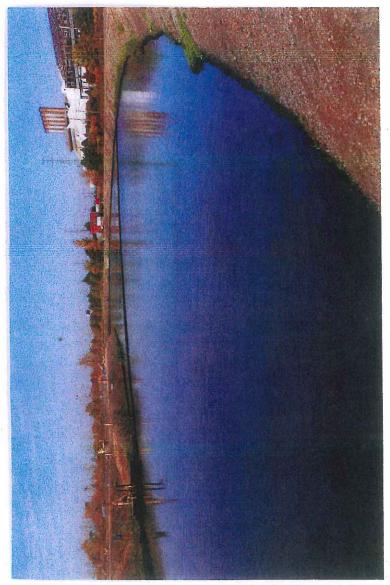
SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - morning

#3: West Sludge Pond, looking west from approximately 30 feet north of Brill skimmer tank. Note netting, spacer drums, and west perimeter fence in-place. Rouge River floodplain beyond fence in background.







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

#4: Ground at mid-slope of north central bank of East Sludge Pond, looking down & south from approximately 15 feet west of northeast corner. Note probable Norway Rat burrow under netting, and outer frame cable.

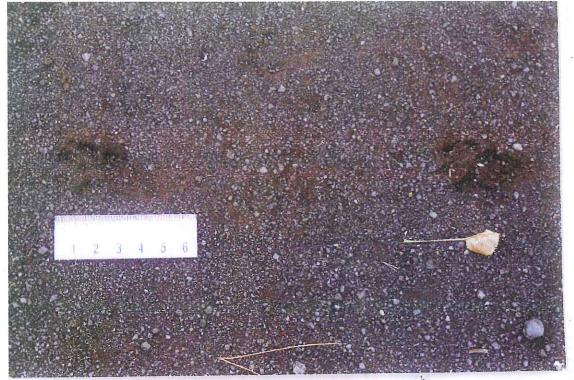
SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

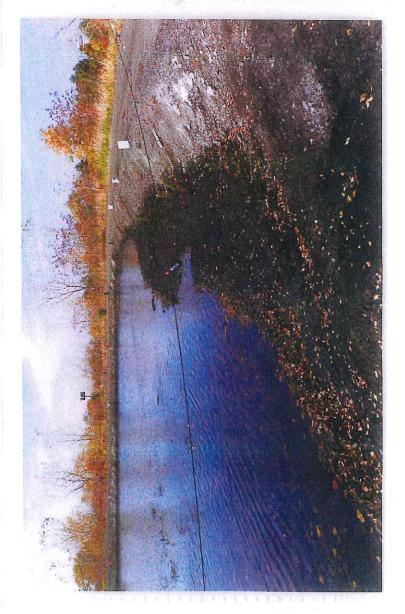
#6: Secondary Lagoon, looking north from top of stairs to lower level of Belt Skimmer. Note new north diagonal boom, and south diagonal boom (far left).

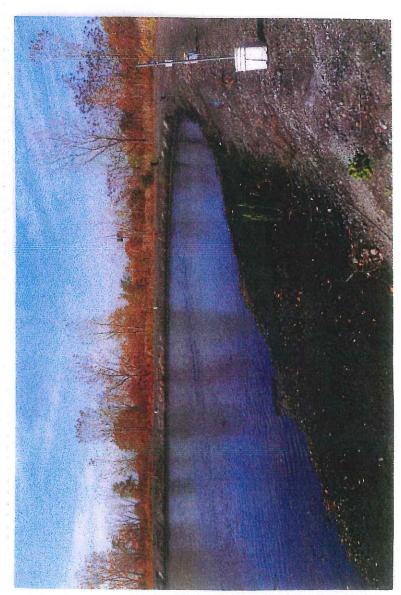
#5: Ground near top of southeast bank of Secondary Lagoon, looking down & east from approximately 7 feet west of west end of guardrail opposite belt skimmer. Note possible Eastern Cottontail burrow & inch ruler for size.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP Photographed by Michael Carlson October 17, 2012 - afternoon









SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon #7: Surface of west side of west perimeter road opposite TVT bridge at Primary Lagoon and approximately 20 feet north of gas pipeline marker. Note probable Coyote tracks and inchruler for sizing.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

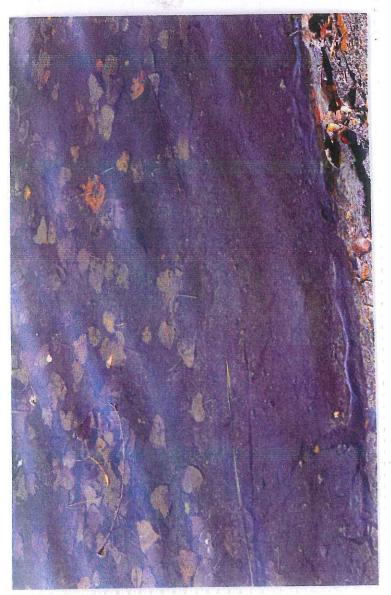
#8: East side of Diked Lagoon, looking north from Station No. 4 at the southeast corner of the Diked Lagoon. Note Mylar ribbons inplace, and littoral area.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

#9: East side of Diked Lagoon, looking north from approximately 15 feet north of Station No. 4 at the southeast corner of the lagoon. Note Mylar ribbons in-place, and littoral area. Bermed area proper in background..







SEVERSTAL DEARBORN, I.L.C. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon #10: Diked Lagoon looking west from approximately 15 feet north of Station No. 4 at the southeast corner of the lagoon. Dogleg of the bermed area in background and west end of bermed area proper (far right).

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

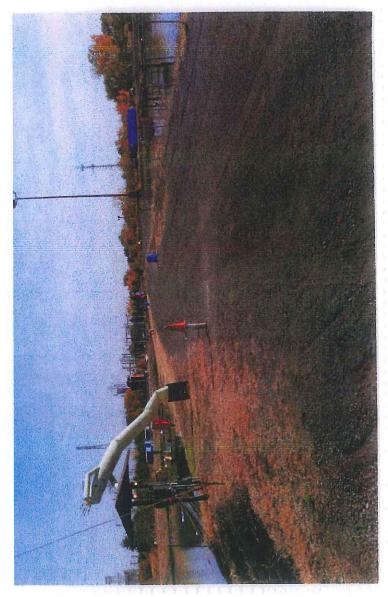
#11: Surface of water at east central side of the Diked Lagoon, looking down and west from approximately 25 feet south of northeast corner of lagoon. Note clear water with cottonwood leaves visible at bottom of lagoon.

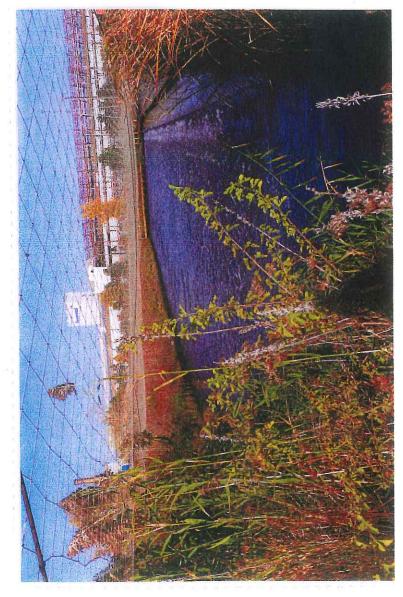
SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

#12: Surface of east side of road west of the Diked Lagoon opposite the southwest corner of the Diked Lagoon, looking down and southwest. Note Coyote tracks and inch ruler for sizing.







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon #13: Surface of east side of road west of the Diked Lagoon opposite the southwest corner of the lagoon, looking down and southwest. Note close-up of one Coyote track and inch ruler for ching. Note labed trianmals heel nad

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

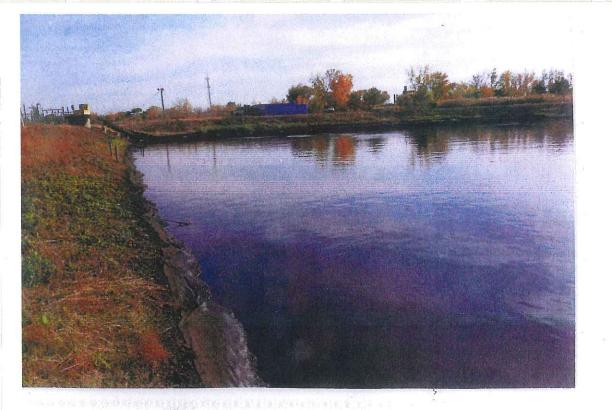
Photographed by Michael Carlson October 17, 2012 - afternoon

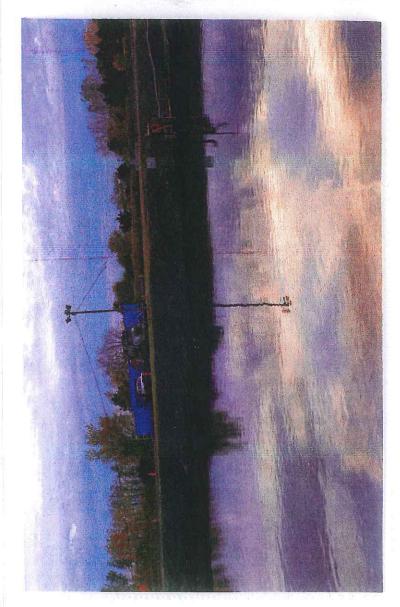
#14: Main north-south road looking south from approximately 15 feet north of inlet to the Secondary Lagoon. Note air-dancer, propane cannon, & Primary Lagoon fence in-place. Cones and drums mark monitoring wells.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

#15: North end of Primary Lagoon, looking east from under the net approximately 10 feet north of the west three feet of the OMI 2 mop tray. Note netting in-place, and spillway.





SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

#16: South end of Primary Lagoon, looking south from TV.T bridge above water's edge. Note geotextile (foreground) in-place, OMI 1 (far left), and groundwater treatment module in center background. Trees are at Rouge River.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson October 17, 2012 - afternoon

#17: Southwest side of Secondary Lagoon, looking west from Station No. 2 at the top of southeast bank of Secondary Lagoon near north clarifier. Note groundwater treatment module in plain south of Primary Lagoon.

APPENDIX B

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
124	9	1	0	Near Primary Lagoon, near	5	Flew away. Birds flew away or
				Secondary Lagoon, near Diked		flew to another area after horn
				Lagoon, and near Bermed		blasts.
				Area.		

^{*}During dawn to dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

				Exposed
Fence	Bank Cover	Cannon		Wildlife
Breach	Oiled	Operating	Wildlife Observed	Observed
None	31 days	31 days	None	None

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	lot Captured			
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
	NI -	N	Nia	Vaa	Oil not captured by skimmers is removed on a
No	No	No	No	Yes	daily basis.

			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
10/1	7:00m	N	N	N		0	N_{c}	14
10/1	9:09 m.	$\mathcal{M}_{\underline{c}}$	1.1	٧,	V	0	N	A.a.
10/1	P.M.	λ	N	N	N	0	/J	Att
10/1	8:90		N		\sim	\mathcal{O}	\mathcal{N}	19
lolz	7:90	\mathcal{N}	1	W	N	0	\mathcal{N}	R
10/2	9:03 KM	N	/J	N	N	O	<i>[</i> .]	A.H.
10/2	1:00 PM	N ₂	N	7	N	Ü	N	Ail
10/2	8:00	N	N	N	N/	0	\sim	14
10/3	7.00 AM	N,	1	\sim		0	N	R
10/3	9:00 KH	N	Ŋ	μ,	کار	0	N	A.II.
10/3	1:00 PM		/১/	14	1	0	$\mathcal{N}_{\mathcal{I}}$	AH
10/3	8:09m		N	N	N	0	N	R
10/4	720	\sim		\mathcal{M}	- N	0		M
10/4	9:AR	10	N	N	7	0	N	Cilo
10/4	1.00	1)	N	7	7	0	N	C.L
10/4	8,00m	Z	N	N		0	<i>\lambda</i>	A.17.
10/5	7,00Ad	N	/\J	کہ	ム	0	N	A.4.
10/5	9:09M	Н	7	N	7	0	N SI I	C.L.

Location Code: B = near Bernied area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

,			S	RWWTP	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
10/5	1:00 P.M.	N	hamag	2	N	0	N	Colo
iots	8.00	N	N		N	0	N	A
10/6	7:00 Am		n/	\mathcal{N}	n/		n/	RC
10/6	4,00 W	N	7	7	~	Ó	N	C.L.
10/6	PM	2	7	7	2	0	N	C. L.
10/6	8,09.N.	7	N	N	7	0	N	A.H.
10/2	7:00 A.M.		/3	15	N	0	N	Ait.
10/7	9:00 A.M.	N	N	N	2	0	N	Cilo
10/7	1:00 F.M	2	N	N,	Z	0	N	CiLi
0/2	8:9Pm	N	/	N	N	0	1/	RE
10/8-	7:00	\sim	N	1	N	0	N	W.
10/8	9:40AM	N	N	J	Z	0	N	A.H
10/8	1:00 PM	N	لہ	N	N	0	N	A.H.
10/8	01000	\sim	N	N	N.	0	N.	RC
10/9	7500 Am	N	N	N	N	0	1/	P
10/9	9,00 AV	BLUE HORON	N	N	D	0	N .	A.H.
10/9	1;00 PM	KILL OGM	\sim	1	Ρ,	0	N /	A.H.
n/a	8:00 M	N	N	N	N	0	N	14

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

q:\excelvouge\Revised by MEC.xls

SRWWTP - Wildlife Activity Log								
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
10/10	7:00m	N	\mathcal{N}	N	\sim	0	N	VI
10/10	9:00 AM	KILLDEDE	N	N	P	0	N	A.H.
ID/IO	1,00 PM	. (N	\sim	N	0	$\mathcal{N}_{\mathcal{I}}$	A.H.
10/16	8:00	N	N	N	N	$\hat{\mathcal{O}}$	N	K
10/11	7500 AM	1/	N	\mathcal{N}	\mathcal{N}	0	N	100
10/11	9,00AH	Ň	N	\mathcal{A}	· N	٥	\mathcal{A}	A.H.
10/11	1,00p.H.	N	\ \ !		M	0	<u> </u>	A.H.
10/11	E'OF	N	7	N	N	0	N	加
10/12	J.w.Yw	N	N	N	N	Ð	N	世
10/12	4:80	N	N	N	N	0	N	Cili
10/12	F.M.	N	N	N	N	0	N	C. L.
10/12	mq ²⁰ .8	X	N	N	N	0	N	th
10/13	$ M_{QQ}f_{c} $	N	N	N	N	0	N	对
10/13	9:00 AM	N	N	N	N	0	N	Cocho
10/13	1,00 0,M,	N	N	N	N	0	N	CILO
10/13	S. DW	N	7	N	N	0	N	77
10/14	7:00AM	N	N	N	N	O	N	M
10/14	9:88	N	N	N	N	8	N	CIL

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

SRWWTP - Wildlife Activity Log									
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)	
10/14	1:00 P.M.	N	7	N	N	0	N	C.L.	
10/14	8:00 PW	N	7	7	2	C	N	77	
0/15	1.00/W	Kill BEER	4	_ 7/	B	2	FIEW KWAY	77	
olis	9:00	2	N	17	N	0	Ν	CILO	
0/15	1:00 P.M.	N	N	· N	N	0	Ŋ	CIL	
olis	8.00	$-\mathcal{N}_{,-}$	Δ	N	$\mathcal{N}_{\mathcal{I}}$	0	N	A	
0/16	7500 AM	\mathcal{N}	\mathcal{N}		N	0	\mathcal{N}	K	
0/16	9;00 AM		<u> </u>	4	Ņ	0	<u> </u>	A.H.	
0/16	1'00 p.m	N	N	~~	N/	0	N	A.H.	
0/16	8:00 8:00	N_{\perp}	N,	N	N	0	$\mathcal{N}_{\mathcal{C}}$	K	
0/17	7:08m	$-\mathcal{N}$	N	N	N	0		10	
2/17	9,00 AM	<u> </u>	4	N	N	Ó	N	A.H.	
0/17	1,00pm	~/_	__/_	$\mathcal{A}_{\mathcal{A}}$		0	$\mathcal{N}_{\mathcal{N}}$	A.H.	
0//2	8:00m	N	N	$-\mathcal{N}_{\perp}$	$\mathcal{N}_{\mathcal{M}}$	0	\sim	RE	
OIIB	1999		N	N	n	0	N	R	
2/[8]	9:00 AM.	<u> </u>	4	4		0	N	A.14	
0//8	(2000)	~ ~ ~ ~	N	1	~/	0	\rightarrow	At	
O/ 8 ocation (8:08		N	<i>//</i>		0	condary lagoon; SL = near Sludge po	K	

FORM SRWWTP 1.03 DATE: 2/24/2001

q=excel/rouge\Revised by MEC.xls activity log

	SRWWTP - Wildlife Activity Log									
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)		
10/19	7:00 Am	\mathcal{N}	N	A/	- k/	0	\mathcal{N}			
10/19	9:00 AM	N	N	Ź	V	0	N	A.H.		
10/19	1:00pm	N	N	7	7	0	N	A-H.		
10/19	8:00 PM	N	N	7	2	O	N			
10/20	17:00 AM	N	7	7	N	O I	N	M .		
10/20	HIGO I	7	N	Z	7	0	N	C.L		
10/20	1100 P.M.	7	N	7	7	0	N	C.L.		
10/20	$p_{i}^{*} \infty D^{V}$	Ν	\sim	N	χ	0	N	77		
10/21	MAPS F	7	N	2	N	0	N	#		
10/21	9.00 m	N	N	N	\mathcal{N} ,	Q	N	R		
15/01	3.9gm	N	N	N	\sim	0	N	1		
10/21	8:00 PM	N	N	N	N	0	N	M-		
10/22	F°M	N	\mathcal{N}	N	N	0	N	74		
10/22	9100Am	2	7	7	2	0	7	CIL		
10/22	1:00pm	2	N	7	7	.0	N	C.L		
10 22	Scolu S	Z	N	N	N	0	N	197		
10/23	fixtm	2	\mathcal{N}	\mathcal{N}	N	.0	N	177		
10 23	9:00	2	7	N	7	0	2	C.L.		

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

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- 1.	1	_	.,,,,,,

			5	SRWWTP	- Wildlife Activi	ty Log	- The state of the	
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
10/23	1:00 PM	<u> </u>	N	2	N	0	N	C.L
10/23	8:0Cpn		1	N	1	0	1	
10/24	7.92m			A/	1/	0	N	
10/24	9,00 pm.	N	Ň	Ż	Ü	Č	N	A.T.
10/24	1,00 PM	N	N	N	15	0	11(A-14
10/24	8:00 PM	N	N	n/i	0//	Ø.	A	
18/25	7:09m	N	N	N	\mathcal{N}	0	N	
12/25	9,00 A.4	N	して	77	7	0	N	A.H.
10/25	1:00 Par	/ \	<i>N</i>	/\{	13	٥	1	A.H.
10/2>	8:00 pm	N	n	'nΙ	2	0	1/	100
10/26	7:00 Am	N	N	A/	N	0	A /	12
10/26	9,00 KM.	N		Ŭ		0		AH
10/26	['00 p,1.	<u> </u>	\(\mathcal{L}\)	N	N	0	\mathcal{L}	A-11
10/26	8:08m	- N/	Δ	N		0	^	10
10/27	7:9PM	\mathcal{N}	N	/	N	0	N	
10/27	9:00 AM.	RED WIME BLACK BRED	N	N	D	0	N	A.H.
1/27	1,000	BLUEHERONS/ROBMS	N	7	B / S	0	N	A.H.
	8:00 PM	N = near Bermed area: D	_N_	N	N	0	N	The state of the s

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001 2012

			S	RWWTP	- Wildlife Activi	ity Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
10/28	7:00 Am	KINDEER	7	Z	-B	2	FIEW AWAY	H
10/28	9:00Am	N	7)	7	2	0	N	C. L.
10 28	1:00pn) N	N	N	N		N	C , L,
10/28	N. Solve	N	N	N	N	_ 0	N	31
10/29	7.00 AM	N	N	N	N	0	N	T.A.
コントラレイ ま	9:00 A.M.	N	N	N	7	0	N	C.L.
10 29	1:00 P.M.	N	N	N	N	0	N	C.L.
10/29	メール	N	N	N	N	0	N	M;
10 30	7:00 Am		N	N	N	0	N	
10/20	9:00	Kill Deer	7	N	<u> </u>		Flew away	C, L-
10 30	1:00 P.M	at a	N	N	N	0	N	C:L.
10 30	TION!	7	N	N	N	0	Ν	Q.T
10 31	7'00/AM	Ŋ	N	N	N	0	N	74
10/31	9:00 Aires	\sim	~	~	<u> </u>	_ ౖ	N	A-(+
	P.M.	N	7	14	N	0	N	A.H.
10131	8:9m	\mathcal{N}	N	N	\sim	0	N	A
\rightarrow								
		- noar Bornod oros: D						

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001 2012

SRWWTP DAILY WILDLIFE DETERRENCE INSPECTION LOG SHEET

Inspec	ction		Status of I	Deterrent S	ystems	Wildlife O	bservations		
Date		Breach/ Damage	Location	Bank Cover Oiled	Noise Cannon Operating Properly	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
2012	700	(Y/N) ¹	(if Y)	(Y/N)	(Y/N) ²	· /	2/	20 /	1812
10/1	800 PM		N	Ÿ	Y	N	N	N	K
10/1	9:00 AM	N	N	4	17	N	N	N	A.H.
10//	1:00 PM	7	N	4	Y	11	N	N	A.H.
10/2	7500 AM	N	N	Y	Y	\mathcal{N}_{f}	N	N,	100
1010	8:00 9:00	N	N	7	Y	N/	n/	N	M
10/2	1;09 _M	1 -	7	7	7	N	N	77	A.H.
10/2	7,00 AM	N	N	4	4	1/	N_{i}	W	RP
1015	8:00 PM	N	N	Ý	4	N	N	N	M)
10/2	9:00 AM	N	N	19	14	N,	N	N	A.14
(1-1)	1:09m	N	N	7	7	N	N	N	A-H.
Inlu	7:00 AM	N	N	4	4	N	\mathcal{N}	N	14
1019	\$;¢	N	N	17	17	1	/\(\)	7	A-H

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.

Inspe	ction		Status of 1	Deterrent S	ystems	Wildlife O	bservations		
			ence	Bank Coyer	Noise Cannon	Wildlife Observed	Exposed Wildlife Observed		Inspector
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	(N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	(Initials)
10/	9:00 AM	Ν	7	1	1	N	N	N	C.L.
1019	1:00 PM	N	N			N	N	N	$C_{i}L_{i}$
166	7:00 AM	N	7	<u>Y</u>	Y		N	N	4-4.
1015	1:00pm		M	1	1	M	M	N	C.L-
Inla	9.00 AM	N	N	Y	1	Д	N	N	CiL,
1015	8-00 PM	N	N	Y	4	\mathcal{N}		1	RP
Inte	7-20 AM		Δ	4	4	\sim \sim	N	N	K
10/6	8:UPM	N	72	'Y	74	\mathcal{U}_{+}	<u> </u>	M	A-14
10/6	9.00 AM	N	И	7	Y ,	N	N	N,	C.L.
10/0	I.COPM	N	N	<u> </u>	I Y	N	N	M	C.L.
16/	7:00 AM	N	N	7	7	N	N	1	ALL
10//	8:00 PM	\mathcal{N}	N	Y_	L V			1	IC
10/	9:00 AM	Ŋ	N	14	1	N	N	N	CiLi
14/	1.0gm	N	N	Ĭ.		N	<u> </u>	N	CiL

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

2012

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Inspec	ction		Status of I	Deterrent S	ystems	Wildlife (Observations		
Date		Breach/ Damage (Y/N) ¹	ence Location (if Y)	Bank Coyer Oiled (Y/N)	Noise Cannon Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
10/8	7:90 8:90 8:90	N	N	X	N	N		1	R
10/8	9; PO AM Y, OO PM		N	7	/ Y	N N		11	A-14. A-14.
1019	7:00 AM 8:00 PM	N	N	4	N		N	N	IS IS
10/9	9°00 9° AM	77	7	1 y T	74	N	<i>N</i>	N	A-4.
10/10	7.00 AM 8.00 PM	N	N	4	4	N	1/	N	R
10/10	9,000 1,000 1,000	77	7	19	(7	N	N N	N	A.H.
10/11	7:00 AM 0:00 PM	N	1	N	14	N		N.	At No.

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

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Inspec	dian		Status of	Deterrent S	Ystems	Wildii	Observations		MINE AND RESIDENCE AND RESIDEN
			ence	Bank Cover	Noise Cannon	The second secon	***************************************	·	
Date	Time	Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Expased Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials
inlu	900 100	***************************************	77	7	Y	/3	1	26	
10/11	r, bW	<u> </u>	Ŋ	7	<u> </u>	N	N	3	14,4.
10/12.	1.00 1.00 1.00		N	7	Y	N	X	N	A-M
10/10	81.00-M	N.	N	\(\begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	У	N		N	
0/12	9:00m	2	7	1	4	N	N	N	الالح سا ، C
	129m	N	Ŋ	X	4	N	V		C, L,
10/13	7:00 8:06 8:06		N		Y	N	N	N	M -
**************************************	***************************************	N	<u> </u>	1	4	N	N	N	M.
0/13	9:02M	27	7	1		N	N	N	CiL.
11 /	1:00 _{1,M}	1	1			N	N	2	C.i.L.
0/14	1 AM	N	_ N_	1	<u> </u>	N	N	N	M-
<i>i</i>	876 876 876		74	4	<u> </u>	N	N	N	M
0/14	70 AM	N N	2	N		M. T. T. T. T. T. T. T. T. T. T. T. T. T.	N		C.L.
, į	PM	N	N	N			N	***************************************	C. Li

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

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Inspec	rtion		Status of I	deterrent S	Yslėms	Wildlife (Observations		- Particular de la constitución de la constitución de la constitución de la constitución de la constitución de
			cnce	Bank Cover	Noise Cannon	The second secon			
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ²)	Location	Inspector (Initials)
Iolis	7:00 800	2	N	Y_	1	N	N	N	 N-
	8 PM 9:09M			Y	I Y I	N.		N	1
0/15	10QM	2	7	1		N	N	N	C,L
alic	75/2	N	W	4				N	CILI
V/16	8.000	N		<u> </u>	Y	N	$\frac{n}{n}$		
0/16	9.00 1.00 1.00 M		77	4	 	N	18	N	A-11.
Ì	7-00 ///	N	7/	V				1	A.H.
2/17	8200	N		7		n A		N	16
רואס	9:00 AM	/\)	N	'4	17	A Commence of the Commence of	W. W. W. W. W. W. W. W. W. W. W. W. W. W	N	A.H.
- / /	1:0PM	<u> </u>	4	1	Y		X	W	AH.
0/18	800	N	$-\mathcal{N}$	$-\mathcal{J}$	-4	<u> </u>		N	Æ
Voet (V)	**************************************	<u>'</u>		-I	——————————————————————————————————————			1/	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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Inspec	Eleisi		Status of I	deterrent S	ystems	\$2/21.0 ESFL &	\$1		
	arresistana, marka		ence	Bank Cover	Noise Cannon	Company of the Compan	lbservations		
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Expused Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspecto (Initials)
10/19	9.00 AM	LV_{i}	<u> </u>	7	Y	18	N	U	<u> </u>
- 11 0	700 AM	7	<u> </u>				No.	N	A.H. A.H.
0/19	84,68	70	_/V _N	7	74	- V		N	14
n Ira	9,00 7 AM	IJ	N	7	Y	N	A. J.	N W	JT.
1	PM	4	4		Y	N	The state of the s	70	A-4.
0/20	(* AM 9:98	7	7 7		7	N	N	N	74
0/20	9:00 AM	N	N	V	U			N	M.
10	3000 I'00	N	N	Y	Y L	N		1	
Shi	t am 3:00M	4	2	1	4	N	N		H
$-\frac{1}{n}$	9.00	7	N			N		N	过
1/2/	3500	N		7	V	N		4	B

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	cticus		Status of I	deterrent S	ystems	Wildlife	Observations		
		F	ence	Bank Cover	Noise Cannon				
Date	Time	Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (V/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspector (Initials)
olir	7:00 AM	2	N	7	7	N		N	LH
(1886) ; 1000 (1880) (1886) (1886) (1886) (1886) (1886) (1886) (1886) (1886) (1886) (1886) (1886) (1886) (1886)	Sam	2	2		Y	N	N	N	
10/12	9:OAM		<u>N</u>	1	4	N	N	1	CL
Marie and Marie and	1:Cam	N	N	1	J	N	<u> </u>	N	
0/23	77:00 T AM	·	N	4	Y	N	N	N	<u>H</u>
	i Ühm		N	V	Y	N	N	7	
0/13	9:00 M	N	7	Ì	Y	N		2	C.L.
165	8500 I'M	N		Υ'	4	<u> </u>		W	C.L.
t= [7.00 AM	\mathcal{N}	N	Ý	4	M.	A.	Control of the Contro	
6/24	S.D.	N	N	¥	4	<i>I</i>	A STATE OF THE PARTY OF THE PAR		
<i>□/</i> ,	9'60 AM	N	\J	4	7	1		1	
	11,00 PM	N	N	Ý		1		70	A.H.
	7:00 AM	a/	n/	N	<u> </u>	<i>h</i> /			AH
10/25	8:00 PM	A/	\mathcal{N}	J	y T	<u> </u>	nagan izana saria amonama amonama amonama afa izalo an marifuna amonama amonama amonama a		

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

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Inspec	dien T		Status of 1	Jeterrent S	ystems	Wille	Observations	·	
	ann sir sir sir sir sir sir sir sir sir sir	***************************************	ence	Bank Cover	Noise Cannon	The state of the s			
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials)
10/25	9.00 AM	***************************************	N	Y	9		1		
-	1:00 PM 7:00	7	N,	4	7	A second		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A.14.
10/26	8/00	N	$\mathcal{N}_{\mathcal{A}}$	7	4	A			A.H.
With the Later of	РМ	\mathcal{N}	\mathcal{N}	Y	$\square \mathcal{Y}$	W		2	4
16/26	7:00 AM	4	4	9	Y/	N			195
<u></u>	1:08M	N	N	\sim	Y	N		<u> </u>	14 Hz
ر کی ا	AM	1	Δ	Y	<u> </u>	A	P		14. H.
	8; PM	<u> </u>	N	4	(4)	N	N		\ll
16/27	9:00 1:00	4	4	7,	2	\sim		,	
	120 PM	4	N	7	7	N	1		4.H.
6/28	AM	N	N	1		N	N	1.	4.H.
	3:9 _m	N	<u> </u>		Y L	N	N		
0/28	7:00g _M	2 2	N		N. C. C. C. C. C. C. C. C. C. C. C. C. C.	N	N		4
	arm		N	N	N	N	N		C.L,

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FORM SRWWTP 1.02 DATE: 2/26/2001

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Inspec	tion		Status of I	Deterrent S	Ystems	Widlife (Diservations		
		ľ	ence	Bank Cover	Noise Cannon				
2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (V/N)	Operating Properly (Y/N) ¹	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action Taken)	Location	Inspector (Initials)
10/	TICO PA	1 1	N	4	L V L	X	N		4
***************************************	8:46				<u> </u>	N	N		12 - T
1929	9:00 AM			4	<u>Y</u>	N	M. Commission of the commissio	1	C.L.
1 N	1:00pm		N	<u> </u>	X.	N	N	N	C:L
10/30	7:00	N	N		<u> </u>	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	N	N	77-
	7.00 M	i i i i i i i i i i i i i i i i i i i	<u>N</u>		4	N	N	N	M
10/30	1:00		N	<u> </u>	<u> </u>	N	N	N	Cil
i	TIM TIMO	N			<u> </u>	N	N	N	CIL.
10/3/	850D	N	N	1,		N	N. N.	N	#
,	9: <i>0</i> 0	7	<u> </u>					N	ME
10001	II.OO	44						N	AH
1	PM	$\Delta +$			······································	<u>A</u>			A.H.
X	AM PM				to the entry promoterior to the state of the transport of the state of	erradia di di dispersa para menti y tengan pangan p			
/	6.124	L				***		**************************************	

Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

affeccel-rouge Srwwip oil management insp. log sheet

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		S	SRWWT	'P DAII	LY OIL	MANAGEMENT INSP	PECTION LOG SHEET	
Insp	ection	Any recove	rable oil not	captured by	skimmers?			
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
10/1	7.00 8.00 _{PM}		N	N	N	Y	NA	
10/1	1:00 AM	N	777	N	N	Y	NA	
Inh	7:00 AM	N	N	N	N		NA	AH
16/2	8:00 _{pm} 9:00 _{am}	N	N	N	N	Y	N/A	A.H.
10/2	7.00 _{PM}	7/	N	N	N	Y	N/A	A.H.
10/3	8.00 PM	$\frac{n}{N}$	N	N.	N	y	1 AA	
10/3	9:00 _{am} 1:00pm	<u>N</u>	7	N	77	SW Carlor See "	N/A	A.H. A.H.
10/4	7:06 8:00	N	1	N	1	Y	nA-	Ke
	PM	/ \	~		10		N/A	A.H.

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column, (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NF corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon $({ m Y}$ or Location of Uncontained ${ m Oil}^2)$ Lagoon Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9:00 AM N N N N C.L. N M 00.1 :00 N 9:00AM M 8:00 N DDAM N NA M N N NA

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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		S	RWWT	P DAII	Y OIL	MANAGEMENT INSP	PECTION LOG SHEET	
Insp	ection	Any recover	rable oil not	captured by	skimmers?			
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
10/8	7.00 _{AM} 8.00 _{PM}	6/	N	n/	N	i C	M	R
10/8	9:00 _{AM}	7	777	1	N	19	NIA	A.H.
10/9	7-06 AM 8-00 PM	4	N	N	N	T Y	NA	RE
104	9:00 _{AM}	N	N	7/	Ŋ	7/	N/A	A.H.
10/10	7.00 PM 7.00 AM	N	N	N	N	7	N/A	AH.
מולחו	8:00 _{PM}	N	77	77	N	7	NA	A-H
10/11	1:00 PM 7:00 AM	13	/J N	/J	4	XS/F DHEE A.H.	NA VACOUTED EN A.	
ייועו	8:00 _{PM}		N	X	N	14	N/A	Dt

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Primary Secondary Diked Sludge Inspector Date Time (Y or Location of Uncontained Oil2) (or "NA" if not applicable) Lagoon Lagoon **Ponds** Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9:00 AM AH. N N N N N 9:00_{AM} N M N CIL M N M 00 N N N N M N 1,00 N N N N

FORM SRWWTP 1.01 DATE: 2/25/2001

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Primary Secondary Sludge Diked Inspector Date (Y or Location of Uncontained Oil²) (or "NA" if not applicable) Time Lagoon Lagoon Ponds Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) N 7500 9:00

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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Insp	ection	Any recove	rable oil not	captured by	skimmers?			
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
lok	9100 _{AM}		N	4	7		NA	A.A.
10/10	1.00 _{PM}		N,	11/	1		NA	A-It.
Inlia	7.00 AM		N	N	N	4	NH	14
10/19	8:00 _{PM}		7/	N	N	4	NA	DI
Ma	9:00 AM	N	N	N	7	Y	NA	A-4.
14/14	1.CO _{PM}	7	N	N	N	Y	NA	A-H
lobo	7.00 AM	7	N	N	7	Y	M	74-
0100	3100 _{PM}		7	N	N	Y	NA	0+
INDA	9:00 AM	N	N	N	N	4	nst	M
10/10	3:00 PM	N	Δ	N	N	4	n/H	1/2
10/21	7:00 AM		N	7	N	()	NA	M
VICI	8;00 _{PM}	7)	7	N	N	V	NA	13
loh i	9:00 AM	1/,	N	N	\mathcal{N}	Y	AAT.	14
(11)	3:00	\mathcal{N}	N		1	Ý	nA	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Inspector Primary Secondary Sludge Diked (or "NA" if not applicable) (Y or Location of Uncontained Oil2) Date Time (Initials) Lagoon Lagoon Ponds Lagoon 2012 (Y or N) (Y or N) (Y or N) (Y or N) 7,00 M. M N N N N N N 10/22 N NA PM XX N 10/23 NH 9,00 N N N 00 NA M PM 7.00 AM 8,00 9:00 AM N // N (DD) N N 800

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).

Insp	ection	Any recove	rable oil not	captured by	skimmers? ¹			
Date 2212	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
10/25	9:00 AM	N	N	N	N	Ź	NIA	A. H
1472	PM	N	N	N	N	Y	NA	A. j.
الماء	7,00 AM	N	N	A	1	Y	M	A
1926	8:60 PM	N	N	N	N	1 4	N	M
nlai	9.00 _{AM}	N	N	7	N	7	N/A	A.14
0/26	1,00 PM	N	\sim	7	N	4	N/A	Ach
927	7:00 AM	N	N		N	Y	nA	14
ı	Q.00 PM	N	7	Z	Z	/ 4	NA	W-
0/27	9:00 AM	N,	N	N	N	7	N/A	1.14
141	1:00 PM	N	N	\mathcal{N}	N	Y	NIA	A.H.
0/28	7:00 AM	N	N	N	7	\ <u></u>	NH.	H
	8 00 PM	N	N	N	N		XX	J.
128	9 DOW	N	7	7	2		NA	CL
140	1.00°M	N	7)	7	7	V	NA	CL

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

FORM SRWWTP 1.01 DATE: 2/25/2001

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? 1 All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Inspector Primary Secondary Sludge Diked (Y or Location of Uncontained Oil²) (or "NA" if not applicable) (Initials) Date Time Lagoon Lagoon Ponds Lagoon (Y or N) (Y or N) (Y or N) (Y or N) N 000 PM 9100 M M M M M M N N N M N 9:00 N 1:00 N 7:00_{AM} N 8:00 9:00 AM 1:00 AM PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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MID087738431

October 15, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: September 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant ('SRWWTP')

(22111 11 22)

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The September monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the September wildlife survey report by MEC Environmental Consulting, and the operators' inspection logs. A decomposing non-oiled Opossum carcass was found entangled in the net at the top of the west central bank of the East Sludge Pond. The carcass will be discussed in a separate report.

Please contact me at (313) 845-3217 or Lan Trinh at 313-323-1260, if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDEQ

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR September 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Wildlife Survey	Appendix A
Inspection Summary and Report Sheets	Appendix B

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period September 1 through September 30, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

A Wildlife Survey was conducted on September 19, 2012 and a copy of the report is provided in Appendix A. Inspection reports show seasonal activities observed in the general area, and no significant issues at the site were identified. Except, a decomposing non-oiled Opossum carcass was found entangled in the net at the top of the west central bank of the East Sludge Pond. The carcass will be discussed in a separate report.

On several occasions of black birds, blue herons, killdeers and morning doves were observed using one of the treatment plant impoundments, and were scared off with the air horns. The birds flew or ran away after horn blasts, so persistent hazing with the air horn was necessary.

The summary of daily inspection findings is provided in Appendix B. Copies of the inspection reports are also provided in Appendix B. No repetitive use of the treatment ponds and lagoons was observed in the September inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in September. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures

taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in September 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In September, there were observations of black birds, blue herons, killdeers and morning doves overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix B.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of September 2012.

APPENDIX A

Wildlife Survey

MEC ENVIRONMENTAL CONSULTING

VIA FEDERAL EXPRESS

October 13, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant: 2012 Wildlife Survey #5

(P. N. 00330)

Dear Jim:

I am very pleased to present the enclosed letter report for the subject project in partial fulfillment of your Purchase Order No. 592351. This survey constitutes the monthly bird survey in accordance with your Continuing Emergency Measures (CEM) Workplan in response to EPA Administrative Order Docket No. R7003-5-00-001.

The September survey was completed on Wednesday, September 19, 2012. A total of 44 sets of five-minute observations was made from 05:20 to 20:15 at five different stations located at significant vantage points at the Schaefer Road Wastewater Treatment Plant (SRWWTP). Observations were made at this frequency in order to ensure a complete and scientifically sound inventory, to ensure quality assurance of the data collected, and to evaluate allegations of wildlife utilization of the impoundments. Observations were both visual and aural. Visual observations were made using Zeiss FL T* 10 x 42 power binoculars. The location of the five stations designated by MEC Environmental Consulting, which have been used in previous surveys and will continue to be used in subsequent surveys, is presented in the first enclosed table.

Weather conditions varied over the period, and were influenced primarily by a strong, retreating low pressure system centered over central Quebec, a large, high pressure system moving rapidly northeast from Missouri to New York, and a building low pressure system centered over south central Manitoba and later the southwestern border of Manitoba and Ontario. A warm front extended south from this low pressure system through Minnesota, and a cold front extended southwest and then northwest through the Great Plains. Barometric pressure, based on radio-broadcast readings from Detroit Metro Airport, was 30.03 in.-Hg and rising at 04:00, 30.06 in.-Hg and rising at 06:00, 30.08 in.-Hg and rising at 07:00, 30.11 in.-Hg and rising at 09:00, 30.05 in.-Hg and steady at 18:00, and 30.02 in.-Hg and falling at 20:00. Relative humidity, also based on radio broadcast National Weather Service data, was 76% at 04:00, 79% at 05:00 and 09:00, 86% at 07:00, 78% at 08:00, 32% at 18:00, and 41% at 20:00. Sky conditions ranged from mostly clear to clear until approximately 19:30 when skies became mostly cloudy for the remainder of the period. Temperatures ranged from 43° F at 04:59 and around 05:20, to 45° F around 06:15, 07:12, and 07:24, to 51° F around

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09:30, to approximately 68° F around 13:00, and then to approximately 65° F around 17:06, and to 62° F around 20:10. Winds were generally out of the west and northwest during the pre-dawn hours, then briefly out of the south at dawn, then out of the northnorthwest until around 10:15, then out of the west-northwest until mid-afternoon, and then south-southwest for the remainder of the period, except for brief periods in the evening when winds were out of the southeast. Wind speed varied greatly from generally calm conditions during the pre-dawn and dawn hours, to approximately 2-5 mph during the morning, to approximately 5-10 mph during the early afternoon, and then to approximately 10-15 mph, except for brief gusts to 20 mph, for the remainder of the period. A new moon was observed high in the southwest sky at 19:30. Sunrise was at 07:18; sunset was at 19:35.

A total of 28 bird species was observed within the fenceline of the SRWWTP. This species total is three species greater than the 2000-2011 September mean of 25. The greater than average species total is due to the fact that the survey was conducted near the peak of the fall migration, and that the clear skies and light north winds prior to dawn created excellent conditions for avian migration. Indeed, a number of migrants were observed to fly over the SRWWTP during pre-dawn hours. It should be noted that these individuals, representing several species, are reflected in the species total even though they were likely flying at least 200 feet above the facility, and more likely at approximately 300-500 feet. Moreover, only 11 of the 29 species observed were found outside the bermed area, and of the 11 only 6 species were observed on the ground or in vegetation (i.e., were not flying over the facility). More importantly, no birds whatsoever were observed during 15 of the 44 point counts conducted, and for many of the counts only one bird species was observed. Most importantly, no individuals were observed in or on any of the ponds or lagoons, and only two individual were observed immediately adjacent to a pond or lagoon. These results are remarkable considering that the survey was conducted near the peak of fall migration after an excellent flight night. This information indicates that the habitat modifications and deterrents in-place at the SRWWTP are effective.

Two non-human mammalian species was observed during the survey: Eastern Cottontail (*Sylvilagus floridanus*) and Striped Skunk (*Mephitis mephitis*). At 19:57 one Eastern Cottontail was observed by ear to run through vegetation at the northeast end of the dogleg of the bermed area opposite the northwest corner of the Diked Lagoon. At 14:42 a Striped Skunk was observed by olfaction from the east central bank of the Primary Lagoon, although it was not possible to conclusively determine where the mammal was.

No reptilian species was observed during the survey

One amphibian species was observed during the survey: probable Green Frog (*Rana clamitans*). At 12:39 seven probable Green Frogs, including 3 mostly metamorphosed tadpoles, were observed at the northwest corner of the East Sludge Pond approximately 4 feet south of Station No. 1. At 12:47 a total of 35 individuals, comprising approximately 18 tadpoles, were observed along the edge of the northwest side of the East Sludge Pond approximately 8 feet south of Station No. 1. A total of approximately

130 additional individuals, mostly tadpoles, were counted along the west shoreline of the East Sludge Pond. At 13:17 ten probable Green Frog tadpoles were observed at the north end of the East Sludge Pond. At 13:30 approximately 40 tadpoles were observed along the east side of the East Sludge Pond. At 13:35 approximately 60 probable Green Frog tadpoles were observed along the south side of the East Sludge Pond. The frogs were observed to either jump (adults) in the water or quickly dart (tadpoles) from the edge of the pond at the approach of the wildlife specialist. Oil was not observed at the edges of the East Sludge Pond, and frogs viewed through binoculars did not appear to be have oil on their skin.

A large Carp (*Cyprinus carpio*) was observed at 07:28 along the east side of the Secondary Lagoon approximately 50 feet south of Station No. 2.

The entire shoreline of each impoundment was systematically checked at least once during the day. Only the shorelines of the Primary Lagoon (except the north end under the net), Diked Lagoon, sludge ponds (except for the inaccessible west side of the West Sludge Pond) and the south side of the Secondary Lagoon, however, were walked due to steep slopes of the rest of the impoundments. The shorelines of these impoundments not walked were searched from top of grade and other angles using binoculars. Animal sign observed during this search is summarized in the third enclosed table. Photographs, including those of animal sign, are enclosed.

One decomposing, non-oiled carcass of an Opossum (*Didelphis virginiana*) was found entangled in the net at the top of the west central bank of the East Sludge Pond. This carcass will be discussed subsequently in a separate report.

If you have any questions regarding this report please call me at (248) 585-3800. Thank you for choosing MEC Environmental Consulting for your wildlife management needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Seesley/for

Michael E. Carlson

Principal

enclosures

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY STATIONS

No.	Location	Vantage Point for
1	Between East and West Sludge	East Sludge Pond
	Ponds, on the south side, between the	West Sludge Pond
	two guard rails	South Clarifier (part)
2	East side of Secondary Lagoon at	Secondary Lagoon
	north end of guard rail opposite the North Clarifier	North Clarifier (most)
3	South central end of Primary Lagoon just east of weather station	Primary Lagoon
4	Southeast corner of Diked Lagoon	Diked Lagoon Secondary Lagoon (except S end) Primary Lagoon
5	South Central Side of Bermed Area*	Bermed area*, except west end (including dogleg) Diked Lagoon

^{*} not a wastewater treatment pond or lagoon

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Wednesday, September 19, 2012

Common Name	Scientific Name	Maximum			Α	ea		Notes
		Number	I	C	S	P	DE	
Common Loon	Gavia immer					Γ		
Pied-billed Grebe	Podilymbus podiceps						П	
Horned Grebe	Podiceps auritus		Γ					
Double-crested Cormorant	Phalacrocorax auritus		Γ			Γ		
American Bittern	Botaurus lentiginosus							
Great Blue Heron *	Ardea herodias	2	T				Х	1, 2, 3
Great Egret *	Ardea alba		1			-		
Snowy Egret	Egretta thula		Г					
Green Heron *	Butorides virescens					-		
Black-crowned Night-Heron *	Nycticorax nycticorax							
Yellow-crowned Night-Heron	Nyctanassa violacea							
Glossy Ibis	Plegadis falcinellus							
Turkey Vulture	Cathartes aura		┢					
Snow Goose	Chen caerulescens		<u> </u>	H			\dashv	
Cackling Goose	Branta hutchinsii							
Canada Goose *	Branta canadensis	9			X	X	X	1, 2, 4, 5
Mute Swan *	Cygnus olor		_					,, 2, ,, 0
Tundra Swan	Cygnus columbianus						\dashv	
Wood Duck *	Aix sponsa	1	_	\vdash		-	X	1, 2, 6, 7, 8
Gadwall	Anas strepera			\vdash				,,,,,,,,
American Wigeon	Anas americana							
American Black Duck *	Anas rubripes		Н	\dashv	\dashv	\dashv		
Mallard *	Anas platyrhynchos	1		\dashv	\dashv	\dashv	X	1, 2, 6, 9
Blue-winged Teal *	Anas discors			-		\dashv	1	1, 2, 0, 0
Northern Shoveler	Anas clypeata		\dashv	-		\dashv	_	
Northern Pintail	Anas acuta					1	+	
Green-winged Teal	Anas crecca		-	\dashv	\dashv	ᅱ		
Canvasback	Aythya valisineria		-	\dashv	7	+	+	
Redhead	Aythya americana		\dashv	\dashv	┪	\dashv		
Ring-necked Duck	Aythya collaris			\dashv	-	\dashv	_	
Greater Scaup	Aythya marila		\dashv	+	ᅱ	-	+	
Lesser Scaup	Aythya affinis		-	\dashv	-	\dashv		
Long-tailed Duck	Clangula hyemalis		ᅱ	-+		\dashv	+	
Bufflehead	Bucephala albeola		┪	\dashv	-	\dashv	_	
Common Goldeneye	Bucephala clangula		\dashv	+	\dashv	\dashv	+	
Hooded Merganser	Lophodytes cucullatus		\dashv	-	+	\dashv	_	
Red-breasted Merganser	Mergus serrator		+	\dashv	_	\dashv	 	
Common Merganser	Mergus merganser		\dashv	+	\dashv	-	+	
Ruddy Duck	Oxyura jamaicensis		\dashv	-	+	\dashv		
Osprey	Pandion haliaetus			\dashv	-	+	+-	

Common Name	Scientific Name M	Maximum	Maximum			rea		889D	Notes
		Number	İτ	Tc	Īŝ	P	ÌΒ	ΙB	NOIES
Bald Eagle	Haliaeetus leucocephalus						Ť		7 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Northern Harrier	Circus cyaneus		†	T		\dagger	T	╁	
Sharp-shinned Hawk	Accipiter striatus		╁	T	m	T	┪	T	
Cooper's Hawk *	Accipiter cooperii			T	T	\top	\dagger	+	
Broad-winged Hawk	Buteo platypterus		╁	†	F	T	T	\top	
Red-tailed Hawk *	Buteo jamaicensis		T	\vdash	l^-	╁	╁	┪	
Rough-legged Hawk	Buteo lagopus		T	╁	╁	十	╁	╁	
American Kestrel *	Falco sparverius		┪	╁		┼-	╁╴	╁	
Merlin	Falco columbarius		+-	H		╁	+	+	
Peregrine Falcon	Falco peregrinus		\dagger	_	\vdash	十	╁╴	\dagger	
Ring-necked Pheasant *	Phasianus colchicus		+-	╁	_	╁╴	┢	┿	
Northern Bobwhite *	Colinus virginianus		\dagger	 -		-	╁	╁	
Virginia Rail	Rallus limicola		╁	┢	-	\vdash	╁	╫	
Sora	Porzana carolina		╁	╫	-	┢	╁	╁╴	
Common Gallinule	Gallinula galeata		╁				-	+-	
American Coot	Fulica americana		+			├	\vdash	\vdash	
Black-bellied Plover	Pluvialis squatarola		╁	-	_		┝┈	┼	
American Golden-Plover	Pluvialis dominica		-	-			┝	-	
Semipalmated Plover	Charadrius semipalmatus		-			-	┝	 	
Killdeer *	Charadrius vociferus	8	\vdash	_	¥	V	_▽	X	1 0 7 10
Greater Yellowlegs	Tringa melanoleuca	·	-		^	^	r	^	1, 2. 7, 10
Lesser Yellowlegs	Tringa flavipes		├					╀	
Solitary Sandpiper	Tringa solitaria		-				_	-	
Spotted Sandpiper *	Actitis macularius		┝			_	<u> </u>		
Whimbrel	Numenius phaeopus		-				-		
Ruddy Turnstone	Arenaria interpres		<u> </u>			_	_	 	
Red Knot	Calidris canutus					_	<u> </u>	L	
Sanderling	Calidris alba		_	Н		ļ	<u> </u>		
Semipalmated Sandpiper	Calidris pusilla					<u> </u>	_	_	
Western Sandpiper	Calidris mauri					_	_		
Least Sandpiper	Calidris minutilla		_				_		
White-rumped Sandpiper	Calidris fuscicollis						_		
Baird's Sandpiper	Calidris tuscicollis Calidris bairdii						_		
Pectoral Sandpiper	Calidris melanotos								MM
Dunlin							_		
Short-billed Dowitcher	Calidris alpina								
Wilson's Snipe	Limnodromus griseus								
American Woodcock *	Gallinago delicata			_					
Wilson's Phalarope	Scolopax minor			_				Ц	
-	Phalaropus tricolor		Ш					Ш	
Bonaparte's Gull	Chroicocephalus philadelphia								
Ring-billed Gull *	Larus delawarensis								
Herring Gull *	Larus argentatus	2			Χ	Χ		Х	1, 2, 4, 11
Thayer's Gull	Larus thayeri								
Glaucous Gull	Larus hyperboreus			T					

Common Name	Scientific Name	Scientific Name Maximum	30.0	Area					Notes
			T	lc				В	140103
Great Black-backed Gull	Larus marinus		Ī	T			T		And the state of t
Caspian Tern	Hydroprogne caspia			T	1		\dagger	П	
Common Tern *	Sterna hirundo		 	T	T		†		·
Forster's Tern *	Sterna forsteri		T	十	_	T	T	П	
Black Tern *	Chlidonias niger		 	\dagger	Г	<u> </u>	1		
Rock Pigeon *	Columba livia		 		 	T	T	\Box	
Mourning Dove *	Zenaida macroura	2	X	X	Х	X	T		1, 2, 4, 12
Black-billed Cuckoo	Coccyzus erythropthalmus		T	\vdash		<u> </u>	\vdash		Market
Eastern Screech Owl *	Megascops asio		<u> </u>	卜	T			П	
Great Horned Owl *	Bubo virginianus		†	\vdash			\dagger	\Box	
Snowy Owl	Bubo scandiacus		\vdash	<u> </u>		\vdash		\Box	
Short-eared Owl	Asio flammeus		<u> </u>	 		\vdash	 		
Common Nighthawk	Chordeiles minor		H	╁	<u> </u>	\vdash	╁	$\vdash \vdash$	
Chimney Swift *	Chaetura pelagica	1	 	┢	\vdash	x	├	X	1, 2, 4, 7, 13
Ruby-throated Hummingbird *	Archilochus colubris		\vdash	╁	<u> </u>	╁	\vdash	\Box	-, -, ., .,
Belted Kingfisher *	Ceryle alcyon		 	\vdash	-	╁╌	╁	\vdash	
Red-headed Woodpecker *	Melanerpes erythrocephalus		┢	-	-	┢	╁		
Red-bellied Woodpecker *	Melanerpes carolinus		┢	┢	-	-	\vdash		
Downy Woodpecker *	Picoides pubescens	3	├	\vdash	-	╁	╁	X	1, 2, 6, 7
Hairy Woodpecker *	Picoides villosus			├	┝	-	┢		1, 2, 0, 1
Northern Flicker *	Colaptes auratus	1	┢	-	-		\vdash	Х	1, 2, 6, 7
Eastern Wood-Pewee *	Contopus virens	<u>'</u>	\vdash	\vdash	_	-	├		1, 2, 0, 1
Yellow-bellied Flycatcher	Empidonax flaviventris		-	├-	<u> </u>	┢	╁		
Alder Flycatcher	Empidonax alnorum			-	_	┝	-		
Willow Flycatcher *	Empidonax traillii		┞	├	-	├	\vdash	\vdash	
Least Flycatcher *	Empidonax minimus		-	-		-	┝	$\vdash \vdash$	
Eastern Phoebe	Sayornis phoebe	1	├	_	┝	┝	┢	Х	1, 2, 6, 7
Great Crested Flycatcher *	Myiarchus crinitus	1	-		┝	 	-	H	1, 2, 0, 7
Eastern Kingbird *	Tyrannus tyrannus		-	_	_	┞	-	\vdash	
White-eyed Vireo	Vireo griseus		-	_			-	H	
Blue-headed Vireo	Vireo solitarius		-	<u> </u>		├	-		
Yellow-throated Vireo *	Vireo flavifrons		-			┝	-	\vdash	
Warbling Vireo *	Vireo gilvus		-	H	<u> </u>	┢	-	\vdash	
Philadelphia Vireo	Vireo philadelphicus		├-	-		\vdash	├-	\vdash	
Red-eyed Vireo *	Vireo olivaceus		_	-		-	┝	\vdash	
Blue Jay *	Cyanocitta cristata	2	-	-	-	\vdash	-	Х	1, 2, 6. 7
American Crow *	Corvus brachyrhynchos		 	-	-	 	├-	$ \hat{\cdot} $	1, 2, 0. 7
Horned Lark	Eremophila alpestris		⊢	-	-	┢	╀	-	
Purple Martin *	Progne subis		-		-	-	-	\vdash	
Tree Swallow *	Tachycineta bicolor		├-	-	\vdash	\vdash	-		
Northern Rough-winged Swallow*	Stelgidopteryx serripennis		\vdash	-	\vdash	\vdash	\vdash		
Bank Swallow *	Riparia riparia		├-	-	_	 	-	-	
Barn Swallow *	Hirundo rustica		 	\vdash	L	\vdash	-		
Cliff Swallow *			├-	-	_	\vdash			
Unit Swahow	Petrochelidon pyrrhonota		L	<u></u>	<u> </u>			\Box	

Common Name	Scientific Name	Maximum	200		Ar	ea			Notes
		Number	T	C				В	
Black-capped Chickadee *	Poecile atricapillus								
Tufted Titmouse *	Baeolophus bicolor								
Red-breasted Nuthatch	Sitta canadensis								
White-breasted Nuthatch *	Sitta carolinensis		T			П			
Brown Creeper	Certhia americana		Г						
Carolina Wren *	Thryothorus ludovicianus								
House Wren *	Troglodytes aedon	1		П				x	1, 2, 6. 7
Winter Wren	Troglodytes hiemalis		T					_	
Sedge Wren	Cistothorus platensis		╅					-	
Marsh Wren	Cistothorus palustris								
Blue-gray Gnatcatcher	Polioptila caerulea		H						
Golden-crowned Kinglet	Regulus satrapa		H	Н				\vdash	
Ruby-crowned Kinglet	Regulus calendula		 	H	_			+	
Eastern Bluebird	Sialia sialis		<u> </u>	\vdash				+	
Veery	Catharus fuscescens		-					\dashv	<u> </u>
Gray-cheeked Thrush	Catharus minimus		┢			\Box			
Swainson's Thrush	Catharus ustulatus	3	\vdash					X	1, 2, 6, 7, 14
Hermit Thrush	Catharus guttatus		-	\vdash				$\stackrel{\sim}{+}$	1, 2, 0, 1, 14
Wood Thrush *	Hylocichla mustelinus		┢					-	
American Robin *	Turdus migratorius	11	⊢				Х	χ	15
Gray Catbird *	Dumetella carolinensis	6	ļ	Н			$\stackrel{\wedge}{\dashv}$	X	1, 2, 6, 7
Northern Mockingbird	Mimus polyglottos		-			\vdash	-	$\stackrel{\wedge}{+}$	1, 2, 0, 7
Brown Thrasher *	Toxostoma rufum		-					-	
European Starling *	Sturnus vulgaris	55	Y	X	Y			Х	1, 2, 16, 17
American Pipit	Anthus rubescens		Ĥ	Ĥ			_	4	1, 2, 10, 17
Cedar Waxwing *	Bombycilla cedrorum	2	-	Н				Х	1267
Blue-winged Warbler	Vermivora cyanoptera		_	Н	_	\vdash	_	4	1, 2, 6, 7
Golden-winged Warbler	Vermivora chrysoptera			\vdash			\dashv		
Tennessee Warbler	Oreothlypis peregrina		ļ			\vdash		_	
Orange-crowned Warbler	Oreothlypis celata					\vdash		_	
Nashville Warbler *	Oreothlypis ruficapilla		L	\sqcup			_	\perp	
Northern Parula	Setophaga americana		ļ	\vdash	_		-	_	
Yellow Warbler *			<u> </u>	\sqcup					
Chestnut-sided Warbler	Setophaga petechia		ļ	Н			_		
Magnolia Warbler	Setophaga pensylvanica		ļ					_	
_	Setophaga magnolia		_					\perp	
Cape May Warbler Black-throated Blue Warbler	Setophaga tigrina		<u> </u>						······································
	Setophaga virens		<u> </u>	Ш					
Yellow-rumped Warbler	Setophaga coronata		_	\sqcup			Ш		
Black-throated Green Warbler	Setophaga virens		$oldsymbol{ol{ol{ol}}}}}}}}}}}}}}}}$	Ш					
Pine Warbler	Setophaga pinus		L	Ш					
Prairie Warbler	Setophaga discolor		L	Ш					
Palm Warbler	Setophaga palmarum	1	L	Ш				X	1, 2, 6, 7
Bay-breasted Warbler	Setophaga castanea			Ш					
Blackpoll Warbler	Setophaga striata	7			Χ			X	1, 2, 7, 18

Common Name	ame Scientific Name Maximui	Maximum			Α	rea	i est		Notes	
		Number		C	S	P	D	В	1	
Cerulean Warbler	Setophaga cerulea				Γ	Γ	Τ	Τ		
Black-and-white Warbler	Mniotilta varia						T			
American Redstart	Setophaga ruticilla		Τ			Τ	Γ			
Prothonotary Warbler	Protonotaria citrea		T	Π	Τ		Т			
Ovenbird *	Seiurus aurocapilla		T							
Northern Waterthrush	Parkesia noveboracensis		\top	T			T			
Mourning Warbler *	Geothlypis philadelphia				Π		T	T		
Common Yellowthroat *	Geothlypis trichas	2	2				T	Х	1, 2, 6, 7	
Wilson's Warbler	Cardellina pusilla		T	Г		T	T	T		
Canada Warbler	Cardellina canadensis		1	Τ		1	T			
Yellow-breasted Chat	Icteria virens		†		T	T	+	1		
Scarlet Tanager *	Piranga olivacea		T	T	T	T	\vdash	<u> </u>		
Eastern Towhee *	Pipilo erythrophthalmus	-	T	-		╁	†	T		
American Tree Sparrow	Spizella arborea		┪	\vdash	\vdash	┢┈	╁			
Chipping Sparrow *	Spizella passerina		T	T		H	_	\vdash		
Field Sparrow *	Spizella pusilla		┼┈	┢	-	-	-			
Vesper Sparrow *	Pooecetes gramineus		╁		-	┢	-	\vdash		
Savannah Sparrow *	Passerculus sandwichensis		\vdash	-	├	\vdash	-	\vdash		
Grasshopper Sparrow	Ammodramus savannarum		╁	-	_	 	┝	\vdash	· · · · · · · · · · · · · · · · · · ·	
Henslow's Sparrow	Ammodramus henslowii		╁┈	-	-	<u> </u>	├	+		
Fox Sparrow	Passerella iliaca		╁	-	-	┢	-	\vdash		
Song Sparrow *	Melospiza melodia	 8	X	-	-	┞	-	X	1, 2, 7, 19	
Lincoln's Sparrow	Melospiza lincolnii			-	_		 	^	1, 2, 7, 19	
Swamp Sparrow *	Melospiza georgiana	1	╁			Х	 	H	6 7 20	
White-throated Sparrow	Zonotrichia albicollis	<u>'</u>	├—			_	-	┞┤	6, 7, 20	
White-crowned Sparrow	Zonotrichia leucophrys		 		-		-			
Dark-eyed Junco	Junco hyemalis		\vdash					\vdash		
Lapland Longspur	Calcarius Iapponicus		-	Н		-	<u> </u>	\vdash		
Snow Bunting	Plectrophenax nivalis		<u> </u>				_	\sqcup		
Northern Cardinal *	Cardinalis cardinalis	2	<u> </u>	V	Х	<u> </u>	<u> </u>	IJ	4.0.0.04	
Rose-breasted Grosbeak *	Pheucticus Iudovicianus	3	<u> </u>	^	^		_	Х	1, 2, 6, 21	
Indigo Bunting *	Passerina cyanea		_				<u> </u>			
Dickcissel	Spiza americana									
Bobolink *	Dolichonyx oryzivorus							V		
Red-winged Blackbird *	Agelaius phoeniceus	1	V	V				X	1, 2, 4, 6, 7, 22	
Eastern Meadowlark *	Sturnella magna	5	Χ	Δ				Х	1, 2, 6, 7, 23	
Rusty Blackbird			_					Ш		
Common Grackle *	Euphagus carolinus									
Brown-headed Cowbird *	Quiscalus quiscula	85						X	1, 2, 7, 24	
Orchard Oriole *	Molothrus ater									
	Icterus spurius									
Baltimore Oriole *	Icterus galbula									
Purple Finch	Haemorhous purpureus		Ш							
House Finch *	Haemorhous mexicanus									
Red Crossbill	Loxia curvirostra									

Common Name	Scientific Name	Maximum	Maximum Area				Notes		
		Number	L	C	S	Р	D	В	
White-winged Crossbill *	Loxia leucoptera	TANADON N				Г	Ī		
Common Redpoll	Acanthis flammea				<u> </u>				
Pine Siskin *	Spinus pinus						┢		
American Goldfinch *	Spinus tristis	2		┢		-	X	X	1, 2, 7, 25
Evening Grosbeak	Coccothraustes vespertinus		H		_	\vdash		\vdash	, ,
House Sparrow *	Passer domesticus		Н	_		 			
SPECIES TOTAL		28	1 (2 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4				L		

LEGEND

Number means the maximum total observed within the fenceline at the facility; effort was made to avoid any double-counting.

* Indicates species known or suspected to breed in the general area encompassing the site based on generalized state maps (showing county boundaries) presented in "The Atlas of Breeding Birds of Michigan" by R. Brewer et al. (MSU Press: East Lansing, 1991). It should be emphasized that many of the species indicated as breeding birds have specific habitat requirements that are not met by the industrial environment at the Schaefer Road Wastewater Treatment Plant (SRWWTP) and the surrounding area. Thus, species marked with an asterisk above should not be assumed to breed at or even adjacent to the SRWWTP.

Species list adapted from "Bird Checklist of Michigan" (Thayer's Birding Software, 1999) considering habitat provided by site and immediately surrounding areas. Nomenclature is based on the 53rd Supplement to the American Ornithologists' Union "Checklist of North American Birds" (2012).

Bird data collected at five different stations over five-minute intervals throughout the day. Survey performed by Michael Carlson from 5:20 AM to 8:10 PM.

X indicates observations made. It should be emphasized that "X" means that the species was observed within the fenceline of the SRWWTP in proximity to the particular impoundment and, unless otherwise noted, not on or in contact with the water or immediately adjacent to the water at a particular impoundment. In many cases, the species was observed flying over the pond, sometimes higher than 200 feet.

Impoundment Designations:

- L Sludge Ponds
- C Clarifiers
- S Secondary Lagoon
- P Primary Lagoon
- D Diked Lagoon

Other Area Designations:

B Bermed Area

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Wednesday, September 19, 2012

NOTES

- 1. Individual(s) was not observed at or near the water's edge of any of the wastewater treatment ponds and lagoons.
- 2. Individual(s) showed no interest in water surfaces of the SRWWTP wastewater treatment ponds and lagoons.
- One individual was observed at 05:45 to call as it flew over the bermed area proper. Presumably a different individual- an adult- was observed at 10:37 to flush from a large cottonwood on the west side of the north end of the dogleg of the bermed area due to the nearby presence of the wildlife specialist. The bird was observed to silently fly north approximately 12-20 feet above the water surface. This individual was only viewed through the naked eye, albeit a relatively close range. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on the birds due to the pale gray neck and whitish face and whitish marginal coverts which are characteristic of the adult plumage of this species.
- 4. Individual(s) observed flying over the SRWWTP.
- 5. At 08:59 two individuals were observed to fly east over the dogleg of the bermed area and then south-southeast over the plain west of the Primary Lagoon and the south end of the Secondary Lagoon at an estimated height of approximately 100-120 feet above ground surface. Around 09:30 a flock of 7 individuals was observed to fly directly west over the Secondary and Primary Lagoons at an estimated height of approximately 150-180 feet above ground surface. Some of these birds were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white throat-cheek patch, white vent, white femoral tract and rump, and pale breast which characterize this species.
- 6. Individual heard, but not seen.
- 7. Individual(s) likely recently arrived migrant(s) or still in the process of migration.
- 8. At 19:57 one individual was observed to call from the west end of the bermed area proper.
- 9. At 20:00 one individual was observed to call from the north end of the dogleg of the bermed area.
- 10. Around 05:20 one individual was observed to call from what sounded like the top of the west central bank of the Secondary Lagoon. The calling did not appear to be provoked by the approach or presence of the wildlife specialist or the operator's vehicle. Around 05:36 one individual was observed to call from what sounded like the road north of the Diked Lagoon near Station No. 5. At the same time a second individual was observed to call from what sounded like the plain northwest of the Primary Lagoon. At 05:45 one individual was observed to call from what sounded like the road north of the Diked Lagoon and then to call from the airspace over the Diked Lagoon. At 05:58 one individual was observed to call from the plain northwest of the Primary Lagoon and three presumably different individuals were observed to noisily call from the plain west of the Primary Lagoon. Around 06:03 two individuals were observed to call from what sounded like the plain northwest of the Primary Lagoon. Approximately two minutes later, seemingly two different individuals were observed to alarm call and to flush from what sounded like the plain west of the Primary Lagoon in response to the operator driving south on the road west of the Primary Lagoon. The birds were observed to fly south over Station No. 3 and to circle over the Primary Lagoon twice at an estimated height of approximately 15-30 feet above ground surface. Around 06:27 one individual was observed to call from what sounded like the plain west of the Primary Lagoon. Around 09:11 presumably a different individual was observed to fly east and then north over the Primary Lagoon at an estimated height of approximately 100-120 feet above ground surface. Around 20:03 one individual was observed to call from the airspace over the bermed area and Primary Lagoon. Around 20:10 one individual was observed to call from what sounded like the plain west of the Primary Lagoon. Approximately 30 seconds later

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Wednesday, September 19, 2012

NOTES

(Continued)

one individual was observed to call as it flew south over what sounded like the bermed area proper over the east end of the Diked Lagoon. This individual was then observed to call from what sounded like the plain north of the Primary Lagoon. Only one or two of the individuals- all adults- were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white eyebrow (adult only), forehead, throat, collar (adult only), lower breast (adult only), belly, vent, wing stripe, tail tip, and underwing coverts that characterize the plumage of this species.

- 11. At 08:13 one adult was observed to fly west over the Secondary and Primary Lagoons at an estimated height of approximately 100-120 feet above ground surface. Around 19:18 presumably a different third or fourth year adult was observed to fly south over the dogleg of the bermed area at an estimated height of approximately 150-180 feet above ground surface. Both of these individuals were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on either of these individuals. It should be noted that any oil would likely have been very apparent on these third and fourth year adults, due to the birds' prominent white plumage on the head, breast, belly, and underwing.
- 12. At 7:18 one individual was observed to fly north over the Sludge Ponds and Secondary Lagoon at an estimated height of approximately 20-25 feet above ground surface. Around 18:11 a second individual was observed to fly west over the clarifiers, the Secondary Lagoon, and the plain south of the Primary Lagoons at an estimated height of approximately 20-30 feet above ground surface. Both birds were only viewed through the naked eye at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on either of these individuals. It should be noted that any oil would likely have been apparent due to the pale beige coloration of the underparts and white tips of the tail feathers which characterize the plumage of this species.
- Around 19:18 one individual was observed to aerially forage for flying insects as it flew gradually south over the west edge of the dogleg of the bermed area and the plain west of the Primary Lagoon at an estimated height of approximately 200-225 feet above ground surface. Although, from a probability standpoint, the individual was a Chimney Swift, it appeared to be smaller bodied and shorter-winged than individuals of this species. Moreover, the flight was decidedly more buoyant with deeper and more numerous wing beats than a typical Chimney Swift. The individual was observed to repeatedly flap its wings and then glide both up and down in a manner strongly suggesting a Cliff Swallow. Given these observations the bird possibly was a Vaux's Swift, a western species very rarely found east of the Mississippi. Unfortunately the bird appeared as a silhouette, and no plumage coloration or variation, which may have confirmed the bird as a Vaux's, could be seen despite observing the bird through binoculars for at least two minutes.
- 14. Around 05:47 two individuals were observed to flight call from the night sky over the bermed area above Station No. 5. Based on the shift in the volume of vocalizations, the birds appeared to be flying south. It is quite possible that more individuals were calling as they were migrating but these were obliterated by background traffic and mill noise. Around 06:48 one individual was observed to call from a tree on the south edge of the bermed area east of Station No. 5.
- Around 05:36 two individuals were observed to call from the bermed area. Around 06:48 presumably a different individual was observed to call from the bermed area. Around 07:47 two adults were observed to forage on the middle to lower slopes of the west central bank of the Diked Lagoon. One bird was observed to forage approximately 4 inches from the water's edge. Around 08:39 presumably one of the same adults was observed to forage at the mid-slope of the west central bank of the Diked Lagoon. At the same time a presumably different individual was observed to fly over the bermed area and to land in a tree along the east edge of the dogleg of the bermed area where it was observed to rest. At 10:32 one immature was observed to forage along the top of the north bank of the Diked Lagoon opposite just west of Station No. 5. This bird was observed to be molting its head feathers. Approximately 30-45 seconds later three individuals were observed to vocalize from

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Wednesday, September 19, 2012

NOTES

(Continued)

the trees at the south edge of the bermed area proper. At 10:37 two additional individuals were observed to call from the dogleg of the bermed area while one of the previous individuals was observed to call from the southwest edge of the bermed area proper. Several of these individuals were viewed through binoculars. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that oil would likely have been apparent on the adults, due to the yellowish bill, orangish breast and belly, white undertail coverts and white tail spots which are characteristic of the adult plumage of this species. Moreover, oil would likely have been apparent on the immature bird, due to the white throat and small white spots on wing coverts and upperparts which typify the immature plumage of this species. Based on observations of repeated use of the banks of the Diked Lagoon by individuals of this species during the survey, the wildlife specialist requested the operator to replace Mylar ribbons around the perimeter of the Diked Lagoon. This work was initiated by the operator within minutes of the request the afternoon of the survey.

- 16. Not a protected migratory bird.
- 17. Around 09:21 one individual molting into basic plumage was observed to sing from atop the utility pole in the open area east of the East Sludge Pond. At 09:44 presumably the same individual was observed to sing from the antenna on the roof of the SRWWTP Office, located between the north and south clarifiers on the west side. Around 09:50 the same individual was observed to sing from the antenna atop the SRWWTP Office Around 09:57 the same bird was observed on the same antenna to mostly rest but occasionally sing. Around 10:56 presumably the same individual was observed to sing from atop the light pole at the east perimeter fence between the north and south clarifiers. Around 11:05 the same bird was observed to sing atop the same light pole. Around 19:10 seven individuals were observed to rest in a cottonwood in the bermed area proper with some blackbirds. Around 19:37 a group of 47 individuals was observed to fly north over the Sludge Ponds and the Secondary Lagoon at an estimated height of approximately 175-200 feet above ground surface.
- At 05:47 two individuals were observed to flight call from the night sky over the bermed area over Station No. 5. Based on the shift in the volume of vocalizations, the birds appeared to be flying south. It is quite possible that more individuals were calling as they were migrating but these were obliterated by background traffic and mill noise. At 07:44 two individuals were observed to call from the bermed area. Around 07:47 one individual was observed to call from the bermed area. At 07:58 one immature was observed to forage in a tree near the south edge of the bermed area proper approximately 15 feet northwest of the intersection of the north and east roads at the Diked Lagoon. Approximately 120 seconds later this bird was observed to call and to fly west-northwest to a tree inside the bermed area proper. At 10:37 presumably a different individual was observed to call from the dogleg of the bermed area. Only one individual was viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on this bird due to the white belly and undertail coverts, white wing-bars, pale yellow breast, and light-colored feet which characterize the immature plumage of this species in the fall.
- Around 06:48 three individuals were observed to vocalize from the bermed area proper and one individual was observed to call from the north end of the dogleg of the bermed area. At 08:03 presumably a different individual was observed to call from the south end of the dogleg of the bermed area. Around 08:49 one individual was observed to call and one individual was observed to sing from the bermed area. At 10:03 two individuals were observed to rest in the west perimeter fence near the southwest corner of the West Sludge Pond. Both these individuals were observed seconds later to jump to the ground and to begin foraging near the junction of the west perimeter fence and the top of the northwest bank of the West Sludge Pond. At the approach of the wildlife specialist, one individual was observed to fly a short distance to the fence, and then fluttered down to the grass west of the perimeter fence outside the SRWWTP, where it was observed to forage. Only the latter two individuals were actually seen and viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on either of these individuals. It should be noted that oil would likely have been apparent on these birds, due to the whitish throat, belly, and undertail coverts as well as the pale

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Wednesday, September 19, 2012

NOTES

(Continued)

supercilium and submoustachial stripe which characterize the adult plumage of the eastern race of this species.

- 20. Around 07:03 one individual was observed to call from what sounded like the lower to middle slope of the southeast bank of the Primary Lagoon.
- 21. At 08:03 one individual was observed to call from the south end of the dogleg of the bermed area. Around 11:05 one individual was observed to call from the pines along the east perimeter fence opposite the sheds north of the north clarifier. At 13:57 presumably a different individual was observed to call from the trees along the east perimeter fence approximately 85 feet northeast of the northernmost storage shed north of the north clarifier. At 19:57 presumably the 08:03 individual was observed to call from the dogleg of the bermed area.
- Around 05:47 one individual was observed to flight call from the night sky over the bermed area over Station No.
 Based on the shift in the volume of vocalizations, this bird appeared to be flying northeast or may have been circling at the time it was observed.
- Around 07:47 one male in basic plumage was observed to fly north over the dogleg of the bermed area and to land in a tree at the south edge of the bermed area proper, where it was observed to call. Around 09:50 presumably a different male in basic plumage was observed to fly east over the Sludge Ponds and south clarifier at an estimated height of 20-30 feet above ground surface. Around 19:10 three individuals were observed to rest with a group of blackbirds and starlings in a cottonwood in the bermed area proper.
- Around 07:47 one individual was observed to call from the bermed area. At 19:03 a flock of 65 individuals was observed to fly north over the south end of the dogleg of the bermed area and to land in a cottonwood tree there, where the birds were observed to call noisily. At 19:04 the propane cannon at the Primary Lagoon fired and immediately approximately 50 individuals were observed to flush from the tree and to fly west, and then south. Approximately 5-10 seconds later the propane cannon at the Diked Lagoon fired, and 10 more individuals were observed to quickly vacate the cottonwood and fly south-southwest. After approximately 20 more seconds five more individuals were observed to flush from the tree and to fly south. Around 19:10 approximately 10 individuals were observed to call from the bermed area. At the same time one individual was observed to call from a tree in the bermed area proper, and was observed to fly to a different tree and to call. This individual was molting its tail which appeared quite short.
- At 07:58 one individual was observed to call from the bermed area proper. At 08:03 one individual was observed to fly north over the Diked Lagoon and bermed area. The latter bird was not viewed through binoculars and was only seen as a silhouette. Thus, no conclusion can be made concerning the condition of plumage of this individual.

SCHAEFER ROAD WASTEWATER TREATMENT PLANT

ANIMAL SIGN OBSERVED

DATE: <u>9-19-12</u>

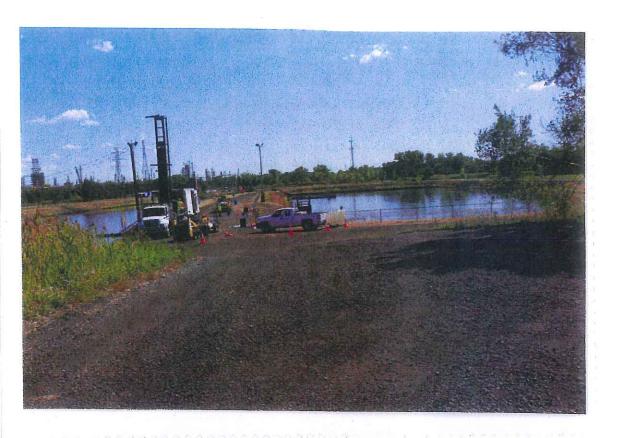
Durrow WOODCHUCK Description Descri	1	Type:	Species:	∐ certain	#:		fresh		soiled
Location: at the top of the southeast bank of the Secondary Lagoon approximately 6-8 feet southwest of belt skimmer		burrow	WOODCHUCK		2		relatively fresh		appears to be oiled
Secondary Lagoon approximately 6-8 feet southwest of belt skimmer Photo #: Sizing Basis: NA Note: Secondary Lagoon Secondary Lagoon Sizing Basis: NA Note: Sizing Basis: NA Sizing Basis: NA Sizing Basis: NA Sizing Basis: NA Sizing Basis: NA Sizing Basis: NA Sizing Basis: NA Sizing Basis: NA Sizing Basis: Secondary Lagoon, approximately 15 feet northwest of utility pole near northeast corner of Primary Lagoon Sizing Basis: Sizing					1		relatively old	_ E	no oil apparent
Secondary Lagoon approximately 6-8 feet southwest of belt skimmer Status: probably		Location: at	the top of the southeast bank of the	I found before] old		
Southwest of belt skimmer Inactive Inactive Individual Indiv	l	Secondary L	agoon approximately 6-8 feet	Status: probab	ly	\boxtimes	very old	F	rom NA
Based on: 1 entrance over grown with vegetation Photo #: Sizing Basis: NA Additional Sign Present: none Note:		southwest of	belt skimmer	inactive	•				
Photo #: Sizing Basis: none NA Additional Sign Present: none 2 Type: Species: burrow WOODCHUCK Continued to the probable Status: probable S		•			trance	0	er grown with		······································
Photo #: Sizing Basis: none Note:				vegetation			or grown with		
Note:	ļ	Photo # Si	zina Racie:					'`	, ,
Additional Sign Present: none Note:		1 1 =							
Type: Species: Certain #: Fresh Solied Species Species: S		ļ						丄	
burrow WODCHUCK		Additional Si	gn Present: none	Note:					
burrow WODCHUCK					o transmit state and an account	Selfon Climat			
Location: under southwest foundation of pumphouse at top of northeast bank of Secondary Lagoon Photo #: Sizing Basis: none NA Additional Sign Present: none Note: Likely connected to Item 4. 1 Type: Species: NA Photo #: Sizing Basis: none NA Photo #: Sizing Basis: none NA Additional Sign Present: none Note: Likely connected to Item 4. 1 Type: Species: NA Photo #: Sizing Basis: none Note: Likely connected to Item 4. 1 Type: Species: NA Photo #: Sizing Basis: none Note: Likely connected to Item 4. 1 Type: Species: NA Dossible Telatively old Individual(s)	2	Type:			#:				soiled
Location: under southwest foundation of pumphouse at top of northeast bank of Secondary Lagoon Secondary Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Secondary Lagoon Secondary Secondary Lagoon Secondary Lagoon Secondary		burrow	WOODCHUCK		3				appears to be oiled
Status: probably Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Lagoon Secondary Lagoon Sizing Basis:		1							
Secondary Lagoon					<u> </u>				
Based on: Woodchuck observed at burrow entrance at concrete slab once during September 2011 survey. Behavior: NA		pumpnouse a	it top of northeast bank of		ly			_∣Fr	rom NA
Durrow entrance at concrete slab once during September 2011 survey. NA		Secondary La	agoon			<u>lL</u>			
Photo # Sizing Basis:									
Note: Note: Species: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: Note: Sizing Basis: S		<u></u>						N.	A
Additional Sign Present: none Note: Type: Species:	i		_	during Septem	ber 201	11 :	survey.	1	
Type: Species:	İ								
burrow WOODCHUCK Desible		Additional Sig	n Present: none	Note:				-l	
burrow WOODCHUCK Desible	,	and the land the same of the s							
burrow WOODCHUCK Desible	3	Type:	Species:		#:		fresh		soiled
Location: mid-slope of northeast bank of Primary Lagoon, approximately 15 feet northwest of utility pole Status: active Gound before		burrow	WOODCHUCK		1		relatively fresh		
Location: mid-slope of northeast bank of Primary Lagoon, approximately 15 feet northwest of utility pole Photo #: Sizing Basis:							relatively old		
pole Photo #: Sizing Basis: NA		Location: mid	f-slope of northeast bank of Primary				old		
Based on: significant excavated material at entrance observed in June survey Photo #: Sizing Basis:	l		oximately 15 feet northwest of utility	Status: active		\boxtimes		Fr	om NA
Photo #: Sizing Basis: none		pole						in	dividual(s)
Photo #: Sizing Basis: NA Additional Sign Present: none Note: Likely connected to Item 4. Note: Likely connected to Item 4. Note: Likely connected to Item 4. Note: Likely connected to Item 4. Image: Species:				Based on: sign	ificant o	exc	avated	Вє	ehavior:
Note: Likely connected to Item 4. Additional Sign Present: none Note: Likely connected to Item 4.				material at entr	ance o	bse	erved in June	N/	A
Additional Sign Present: none Note: Likely connected to Item 4. Type: Species: WOODCHUCK Sprobable 1 relatively fresh appears to be oiled possible 1 relatively old no oil apparent of utility pole near northeast corner of Primary Lagoon				survey					
4 Type: Species:				_					
Type: Species:		Additional Sig	n Present: none	Note: Likely cor	nnecte	d to	Item 4.		
burrow WOODCHUCK	-								
Location: outside (1 foot east of) east side of Primary Lagoon fence, approximately 8 feet north of utility pole near northeast corner of Primary Lagoon Photo #: Sizing Basis: none NA Additional Sign Present: none Type: Species: scat EASTERN COTTONTAIL Docation: top of south central bank of the Primary Lagoon, approximately 25 feet east of former weather station Dossible Dos	4	Type:	Species:		#:				
Location: outside (1 foot east of) east side of Primary Lagoon fence, approximately 8 feet north of utility pole near northeast corner of Primary Lagoon Photo #: Sizing Basis: none NA Additional Sign Present: none Type: Species: scat EASTERN COTTONTAIL Docation: top of south central bank of the Primary Lagoon, approximately 25 feet east of former weather station possible		burrow	WOODCHUCK		1				
Primary Lagoon fence, approximately 8 feet north of utility pole near northeast corner of Primary Lagoon Photo #: Sizing Basis: none NA Additional Sign Present: none Note: Likely connected to Item 3.									
of utility pole near northeast corner of Primary Lagoon Photo #: Sizing Basis: none	•	Location: out	side (1 foot east of) east side of						
Lagoon Based on: entrance appears to have been somewhat modified since last survey Behavior: NA	l				/			7	
been somewhat modified since last survey Photo #: NA		or utility pole	near nortneast corner of Primary			_		line	dividual(s)
Photo #: Sizing Basis: none		Lagoon		Based on: entra	ince ar	ope	ars to have		
none NA Additional Sign Present: none Note: Likely connected to Item 3. 5 Type: Species: Species: Scat EASTERN COTTONTAIL probable Location: top of south central bank of the Primary Lagoon, approximately 25 feet east of former weather station Photo #: Sizing Basis: 10 inch ruler Note: Likely connected to Item 3. #: Species: Specie	ł	Db-4- # 101	- D		t modif	ied	since last	N/	4
Additional Sign Present: none Note: Likely connected to Item 3. Type: Species:		1 1		survey					
Type: Species: Scat EASTERN COTTONTAIL Probable Location: top of south central bank of the Primary Lagoon, approximately 25 feet east of former weather station Photo #: Sizing Basis: 10 Species: S									
scat EASTERN COTTONTAIL		Additional Sig	n Present: none	Note: Likely cor	necte	d to	Item 3.		
scat EASTERN COTTONTAIL	F	Type:	Spaciar	V cort-:-	. I I	F	£!		
Location: top of south central bank of the Primary Lagoon, approximately 25 feet east of former weather station Photo #: Sizing Basis: 10 possible cloud before cloud	ິ	1	•			씓			
Location: top of south central bank of the Primary Lagoon, approximately 25 feet east of former weather station Status: NA very old residual residual Based on: NA Behavior: unknown Photo #: Sizing Basis: inch ruler sizing Basis: inch ruler location loc		scat	EASTERN COTTONTAIL		13	H			
Lagoon, approximately 25 feet east of former weather station Status: NA I very old I residual Based on: NA Photo #: Sizing Basis: 10 Inch ruler Status: NA I very old I residual Behavior: unknown		Location: top	of south central bank of the Primery		ļ	⊨			
weather station Based on: NA Photo #: Sizing Basis: 10 inch ruler residual Behavior: unknown unknown Compared to the property of the propert		Lagoon appr	eximately 25 feet east of former			片			
Photo #: Sizing Basis: 10 Sizing Basis:		weather static	on	Oldido. NA	l	H	residual	171	om i mulviduai(s)
Photo #: Sizing Basis: 10 inch ruler unknown				Based on: NA		ليي		Be	havior:
Photo #: Sizing Basis: 10 inch ruler									
10 inch ruler		Photo #: Siz	ing Basis:					"''	
								1	
	ı								
		Additional Sig	n Present: none	Note: Flv visiting	a.				

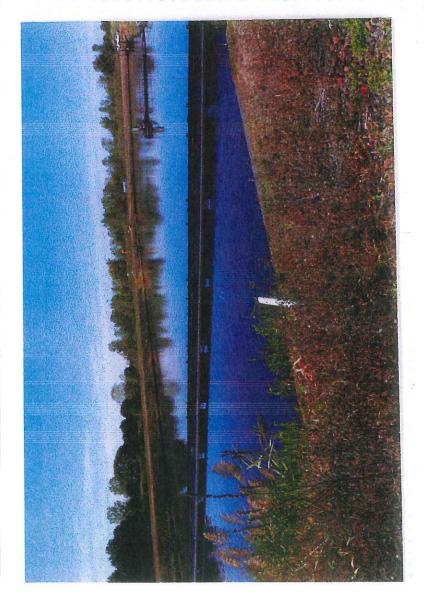
SCHAEFER ROAD WASTEWATER TREATMENT PLANT

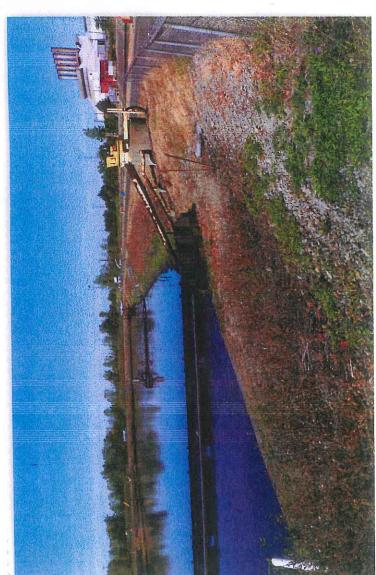
ANIMAL SIGN OBSERVED

DATE: <u>9-19-12</u>

	a and the second of the second second second second second second second second second second second second se		11010.					
ŀ	 Additional Sig	n Present:	Note:					
F	Photo #: Siz	ing Basis:						
			Based on:				Behavi	ior:
		ļ	D1			esidual	individ	
			Status:			ery old	☐ dam From	iayeu
-	Location:		possible found before	-		elatively old		il apparent
ı		}	probable	ſ		elatively fresh	🔲 арр	ears to be oiled
	Туре:	Species:	☐ certain ;	#:		resh	☐ soile	ed
			brown seeds.	very fi	aıu	and dry. Con	ıaın sor	ne readish
ļ.,			Note: Scats are	ven b	ard	and day Com	tole	
- 1		ing Basis: h ruler					}	
-	Db-1- #: 10:						unkno	
	- + w w		Based on: NA		<u></u>	coluual	Behav	ior:
	∟agoon direct	tly opposite intersection of south	Status: NA	}		very old residual	From	1 individual(s)
ĺ	Location: we	st shoulder of road west of the Diked	☐ found before		X.	old	dan	naged
			possible	ა		relatively tresn		ears to be oiled oil apparent
ا	- 1	Species: COYOTE		#: 3		fresh relatively fresh	soil	
9	Type	Chaoine:		-		the second secon	one and the second second second second second second second second second second second second second second	and the second of the property of the second
	Additional Sig	gn Present: none	Note:				·	
ٔ ا	none NA	<u> </u>						
	Photo #: Siz	zing Basis:					NA	
			Based on: NA				Behav	ior:
	Lagoon		December 515		Ц	residual	individ	iual(s)
	pole at top of	southwest bank of Secondary	Status: unknow	n	×	very old	From	
	Location: ap	proximately 2.5 feet west of utility	☑ found before			old	dan	naged
	burrow	EASTERN COTTONTAIL	☐ probable ☐ possible	1		relatively fresh relatively old	☐ app	pears to be oiled oil apparent
8	Type:	Species:		#.		fresh	☐ soil	
	-			Victoria etaleria		TANGE THE TANGE TON THE TANGE TO THE TANGE TO THE TANGE TO THE TANGE TO THE TANGE T		
	Additional Sig	gn Present: none	Note:				Ш	
	none NA							
	Photo #: Siz	zing Basis:	-				walkir	ng
			Based on: NA				Beha	
	Lagoon	The state of the s				residual	_ rom	1 individual(s)
	of the weir at	5 feet east of the west end of the top t the south end of the Primary	⊠ found before Status: NA			old very old		maged
			possible	-	\boxtimes	relatively old	☐ no	oil apparent
	track	GREAT BLUE HERON	probable probable	4		relatively fresh	☐ soi	led pears to be oiled
7	Туре:	Species:	⊠ certain	#:	TFT	fresh		
	Additional Si	gn Present: none	Note:	-				
	none N							
	Photo #: Si	zing Basis:	_				Grikin	OWIT
			Dased on, NA				Beha	
Į	y chow starru	hihe	Based on: NA		JЦ	residual	5.	
ĺ	Lagoon, app yellow stand	proximately 30 feet southwest of	Status: NA			very old		1 individual(s
	Location: to	p of the west bank of the Primary	☐ found before					maged
			possible	-31	朎	relatively fresh relatively old		pears to be oiled oil apparent
6	l ype:	Species: EASTERN COTTONTAIL	⊠ certain ☐ probable	#: ~31		fresh		iled
			1.73	1 41				







Photographed by Michael Carlson September 19, 2012 - affernoon #7: Primary (right) and Secondary (left) Lagoons looking south from approximately 12 feet northeast of Station No. 4. Note propane cannon and air-dancer in place. Drill rig installing monitoring wells.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

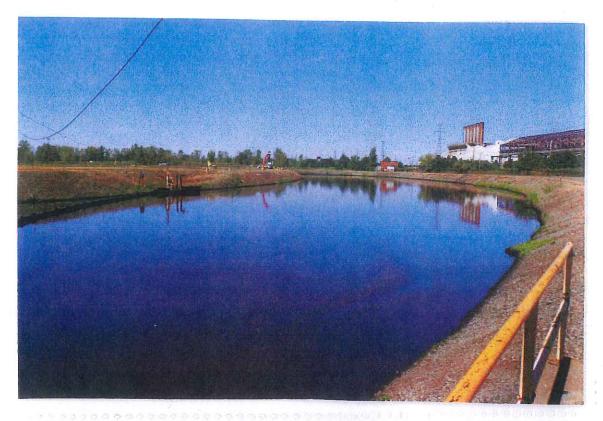
Photographed by Michael Carlson September 19, 2012 - afternoon

#8: Primary Lagoon, looking northwest from approximately 5 feet north of the southeast corner of Primary Lagoon fence. Note baffle & weir, TVT (right), hoist (far right), and propane cannon, air-dancer, & OMI 2 (back center).

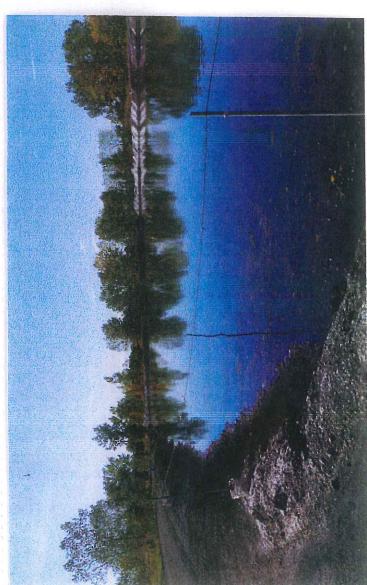
SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#9: East side of Primary Lagoon, looking north from approximately 5 feet north of the southeast corner of Primary Lagoon fence. Note Primary Lagoon fence and air-dancer inplace; baffle and weir, OMI 1, and TVT.







Photographed by Michael Carlson September 19, 2012 - afternoon

#4: Secondary Lagoon, looking north from top of stairs to lower level of Belt Skimmer. Note south diagonal boom and overhead electrical lines at far left. Note propane cannon and air

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

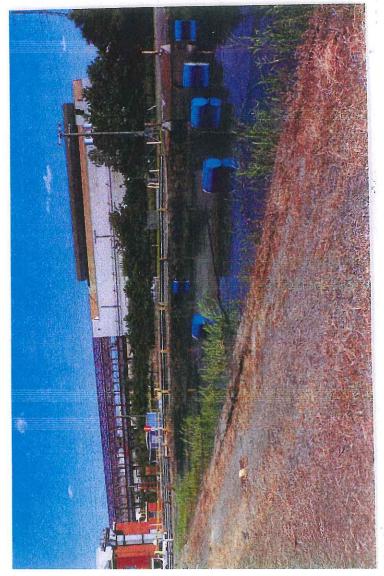
#5: East end of Diked Lagoon, looking north from Station No. 4, located opposite the southeast corner of the lagoon. Note littoral area, cattails, & cabling for Mylar ribbons. Bermed area proper in left background.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#6: Diked Lagoon, looking west from Station No. 4, located opposite the southeast corner of the lagoon. Note propane cannon in-place and cabling for Mylar ribbons. Dogleg of bermed area in left background.







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP Photographed by Michael Carlson September 19, 2012 - afternoon

#1: Water's edge of west side of East Sludge Pond approximately 8 feet south of Station No. 1, looking down and east. Note 4 Green Frogs in water. Blurry diagonal lines evenly spaced among to be due to mesh of netting.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#2: East Sludge Pond, looking east-northeast from approximately 35 feet north of skimmer tank. Note netting, spacer drums, and east perimeter fence in-place. SRWWTP Office at far left.

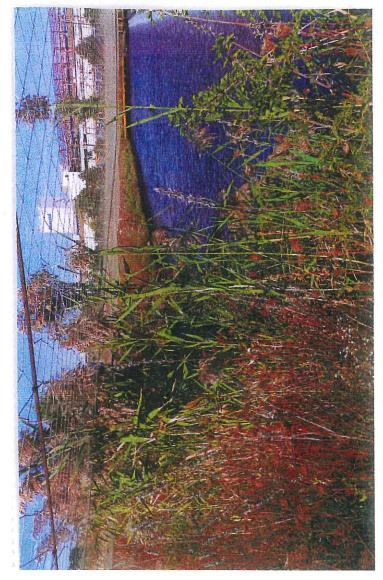
SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#3: West Sludge Pond, looking northwest from approximately 35 feet north of skimmer tank. Note netting, spacer drum (far left), and west perimeter fence in-place.







Photographed by Michael Carlson September 19, 2012 - afternoon

Primary Lagoon approximately 25 feet east of former weather station, looking down and west. Note Eastern Cottontail scat and inch ruler for scale.

Ground at top of south central bank of

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

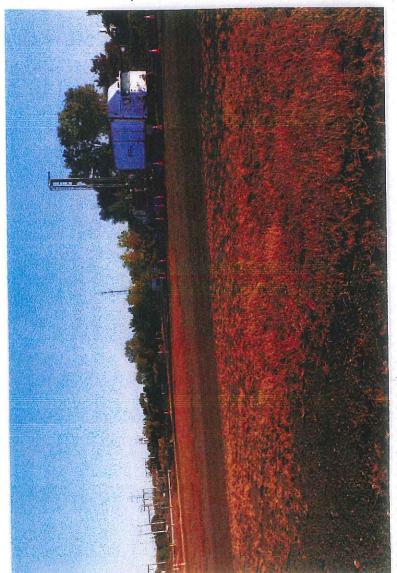
#11: Primary Lagoon looking southeast from near the northwest corner of the Primary Lagoon fence. Note netting, propane cannon, & air-dancer in-place. Primary Lagoon outfall in foreground; and OMI 2 tray (far right).

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#12: North end of Primary Lagoon, looking east-northeast from under the approximately 4 feet north of the west three feet of the OMI 2 mop tray. Note netting inplace.







Photographed by Michael Carlson September 19, 2012 - afternoon #13: Main north-south road looking south from approximately 25 feet south of the northwest corner of the Secondary Lagoon. Note air-dancers, propane cannon, & Primary Lagoon fence in-place. Monitoring well in foreground.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

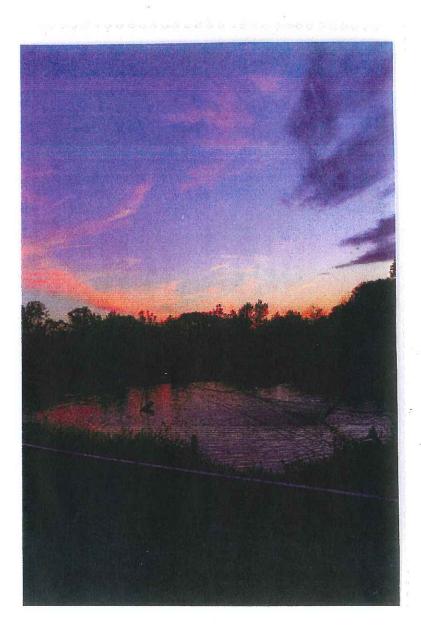
#14: Plain south of Primary Lagoon, looking south-southwest from Station No. 3. South end of Secondary Lagoon in left background. Background tree line is all west of SRWWTP. Drill rig installing monitoring well.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#15: Ground at west shoulder of road west of Diked Lagoon directly opposite the intersection of the roads west and south of the Diked Lagoon, looking down and west. Note Coyote scat and inch ruler for scale.





Photographed by Michael Carlson September 19, 2012 - afternoon #16: Dogleg of the bermed area looking west from the west edge of the road west of the Diked Lagoon approximately 35 feet southwest of the northwest comer of the Diked Lagoon.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson September 19, 2012 - afternoon

#17: West Sludge Pond at sunset, looking southwest from Station No. 1, located at the top of the bank at the southwest corner of the East Sludge Pond. Aerator (right) and influent pipe (left of center).

APPENDIX B

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
120	7	3	1	Near Bermed area and near	0	NA
				Secondary lagoon		

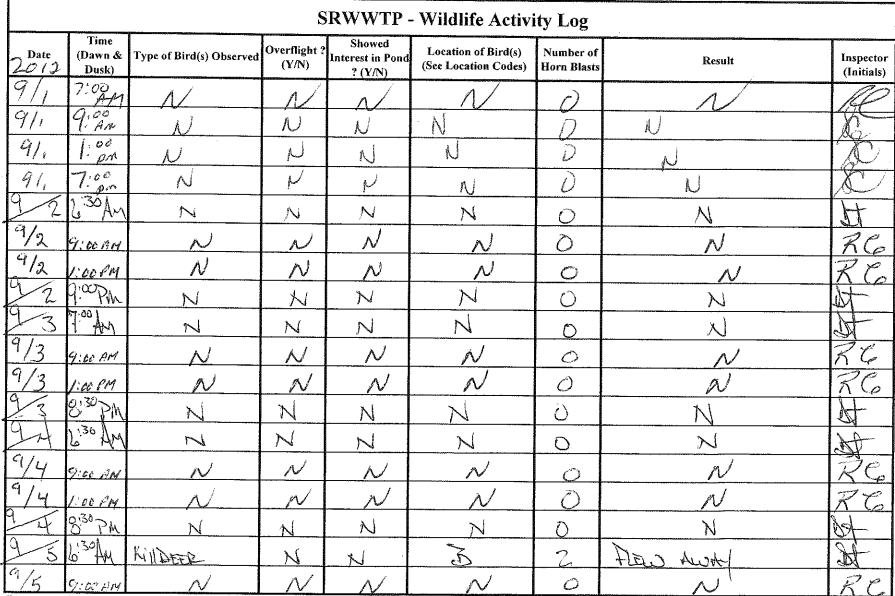
^{*}During dawn and dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

				Exposed
Fence	Bank Cover	Cannon		Wildlife
Breach	Oiled	Operating	Wildlife Observed	Observed
None	30 days	30 days	4	None

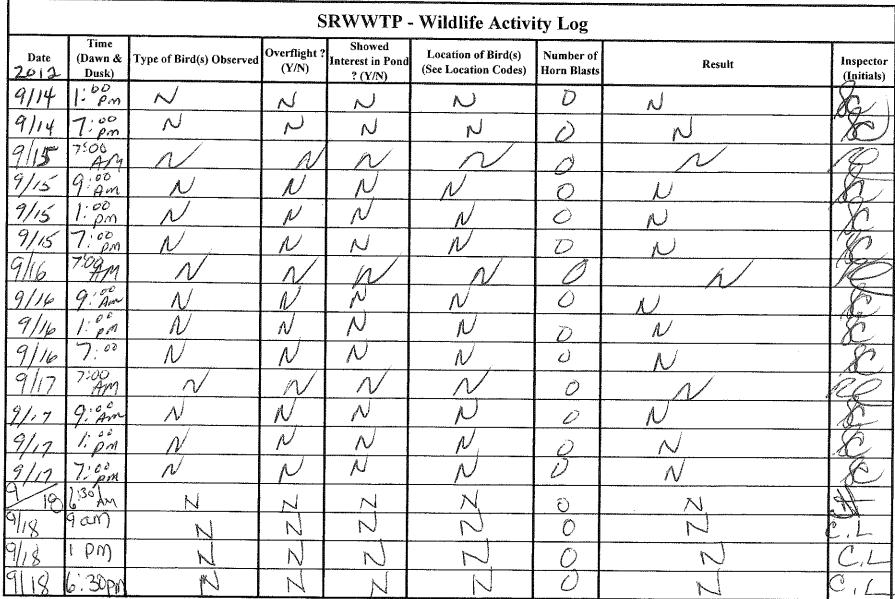
SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	lot Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		_
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.



			S	RWWTP -	· Wildlife Activi	ity Log		
Date 20/2	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
9/5	1:00 PM	\sim	N	Ν	N	Ò	N	RC
9/5	8:00	h/		N	_h/		N	R
9/6	7.02m	N	1	\sim	$\sim \sim$	0	N	1
9/6	9. Am	\mathcal{N}_{\perp}	N		N	O	N	AS-
9/6	1.00	N	N	Z	N	D	N	R
9/6	7:00 7:pm	N	\sim	7	N	0	N	
9/7	7:00 Am	Black BIDS(8)	Y		D	0	HENUD IN trees	100
9/7	9:00 AM	N	N	N	N	D	N	12
9/1	1. pm	N	N	N	N	D	N	80
9/1	7:00	N	N	2	N	D	N	1 %
9/8	7:06 AM	\mathcal{N}	\mathcal{N}	2	\sim	0		120
9/8	9:00	N	N	N	N	D	N	8
9/8	1.00	N	\sim	\sim	N	Ð.	N	1/2
9/8	7:00	N	\sim	7	N	D	N	189
9/9	7:50 AM	N		1/	n/	0	N	A
9/9	9:00m	N	N	N	N	0	j. J	30
9/9	1:00	\mathcal{N}_{-}	N	N	N	ð	N	D
9/9	7/00	= near Rermed area: D	ν	\sim	N	0	N	R

			S	RWWTP -	- Wildlife Activ	ity Log		
Date 2012	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
	6:30 Am	N	N	N	N	0	N	#
9/10	9:00 AM	N	N	1	1/	0	N	10
9/10	1:08M	ca /	n	n	N	Ŏ	N	R
9 10	3 ¹³⁰ PM	N	M	X	X	0	X	1
911	MA CE!	Kill DEER	N	N	B	2	FLEW WELT	Bt
9/11	9.00 Am	N	N	N	N	0	N	80
9/11	1:00	N	N	\sim	N	0	N	C
9-11	8 ³⁴ PM	N	N	N	N	0	N	The state of the s
1/12	1:30 AM	N	N	N	N	ס	N	T.
9/12	9:00 AM	N	NI	1/	n/	0	N	100
9/12	1.00	N	n/	N	N	Ö	N	00
9 129	3130 PM	N,	N	N	N	D	N	1
9 3	:30 AM	THE HERON	٧.,	7	2	2	FLEW LWAY	30
9/13	9.00m	N	N N	N	N	0	Ñ	6
9/13	1:00 1:00	\sim	N	N	Ν,	0	N	R
9/13	7:00 1:pm	\sim	N	\sim	N	0	N	10
9/14	7:00 AM	1/	1/	N	N	0	N	10
1117	9:00 9:Am	N	N	N	N	0	N	80







			S	RWWTP -	Wildlife Activi	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
9 19	J.42 M	X	N	N	N	()	N	4
9/19	9 29	7	7	7	N	\Diamond	N	CL
9/19	2 00 _{egg}	λ	4)	N		0	N	C.L
9119	6.20"	2	N		N	0	K!	01
20	65° AM	7	N	7	N	O	N	M
9/20	9 GM	N	2	2	N	0	N	CIL
9/20	12:30 _m	N	7	7		0	N	CU
9/20	6.390	N	7	N	2	0	N	CL
2	6.45Am	ĵ.	N	Z	X	Ö	N	#-
9/21	9:00 _{AM}	N	7	2	N	0	N	C.L
9/21	$\perp \rho m$	N	N	2	2	0	N	C.L
921	6.45m	N	7	7	N	0	N	C_{i}
9/22	7:00 AM		Ν	/	N	1	n/	M
9/22	9.2AM	W	N	N.	75	0	A)	À.A.
	1:03 PM	Ν	N	N	7/	0	N,	44
9/22	6.45 PM	\sim	N	N	N	0	N	A. H.
9/23	7:00 Am	N	N	N	N	0	N,	10
9/27	7.00 Aug	BLUE Horsen	Y		5	0	N	AA

			S	RWWTP -	· Wildlife Activi	ity Log	ACC important and the property of the first important of the property of the second se	
Date ひゃ(し	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
9/23	1.0014		N	N	N	Ō	N	AA
9/27	6.48 p.m.	au	N	\mathcal{A}	N	Ó	N	AA
9/24	7:00 AM	\mathcal{N}	N	\mathcal{N}	N	0	\mathcal{N}	12
9/4	9:00 AM	N		N	N	0	N	14-1
9/24	1:00 PM	<u> </u>	N	لا	N	8	N	ALL
/	643 PM	الل	И	N	N	۵	N	MA
9/25	750gm	\sim	N		\sim	0	N	10
9/25	9 or Ay	as a	N	7	N	0	N	分配
9/25	100 M	MORNING DOVES	N	N	5	()	N	4.4.
9/25	6:30 p.1.	λ	\sim	\sim	N	0	N	A.H.
20	1/cofm	N	N	N	N	. 0	N	#
9/20	9°00AW	N	7	<i>N</i>	N	0	N	CIL
9/26	1:00pm	N	Ŋ	N	N	Ö	N	02
9/26	7:00M) 7	N	N	N	0	N	C.L
1 27	7:00 Am	N	2	N	\mathcal{N}	0	N	#
4/27	9 00 AM	N	Ŋ	N	N	0		CL.
9/22	1.00pm	N	N	N	No	0	7 /	CL
	6 0000	N	N	7	N	\mathcal{O}		C. L
ocation C	Jode: B=	= near Bermed area; D	= near Dike	ed lagoon; P =	near Primary lagoon;	S = near S	econdary lagoon; SL = near Sludge po	nds.

FORM SRWWTP 1.03 DATE: 2/24/2001

			S	RWWTP -	Wildlife Activi	ity Log		***************************************
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed		Showed	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
9 28	Mort	N	74	N	N	0	N	te
9/28	9.00 RM		2	N	N	0	N	01/-
9/28	[80pn	1)	N	2	N	0	N	C. Z
9/28	6,00pm	2	2	7	Ď	0	N	C/
7.29	T. W.	N	7	7	N	0	N	M
4/29	95,000	and formal	2	2	7	Ó	N	CL
7/29	l'sopm	N	7	7	7	0	N	C.L
	6:30pm	2	\sim	2	2	Ď	N	CL
	7:00 AM	\mathcal{N}	Δ	Λ	N	0	N	100
9/30	9 A.M.	MONNING DONES	کار	N	5	U	\(\sum_{i}\)	Alle
7/73	1:PM	N	\mathcal{N}	N	لتر	0	/s'	AA
9/30	630 PM	\sim	N	N	~ ~	C	N	AA
1								
		Tool Domeston B						







Inspec	tion		Status of	Deterrent S	ystems	\$\$76.4 E.S.	Observations		
			ence	Bank Cover	Noise Cannon			***************************************	
2012		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ¹	Wildlife Observed (N, or Type Observed)	Expused Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials)
7/1	7:98 7:64	***************************************	N N	Y	4				VZC
01	9:00 9:00	N	N	4	J.	N	N	N	
9/,	/. PM	N	N	Y	ý, j		N N	N	
1/2]	6301 67°M		N	7		N	N	N	
7 ,	9.00M	\mathcal{N}	\sim	У	4	N		N ·	
12	M ⁴ 60:1	N		<u> </u>	Y	N		\mathcal{N}	RE
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7/2	?: coam	N	\sim	Y	V	N	X X	\mathcal{N}	4
-)	3°AM	4	N	<u> </u>	<u> </u>	N		$\frac{\mathcal{N}}{\mathcal{N}}$	1 S
1 1 PT	213pm	7 7	77	1		and the second s	N	7	#

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Inspec	ction		Status of	Deterrent S	ystems	William	Observations	****	
		F	ence	Bank Cover	Noise Cannon	The state of the s		······································	
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken?)	Location	Inspector (Initials)
9/4	9:axm	\sim	\mathcal{N}	Y	У	N		<u> </u>	27
	/:coPM	N	\mathcal{N}	У	<u> </u>	N	N	N	K 6
9/	8'00	N	N	4	4	lillea	The state of the s	IN.	45
6 5	S PM	\sim		4	LY				
9/5	9:00M			<u> </u>		\mathcal{N}			5
	7:00 PM		$-\mathcal{N}_{-}$	<u> </u>		N		\sqrt{N}	RG
9/6	7 AM	T T	1	\sqrt{v}	74			1	
	7. PM 9.00 9.00	$\frac{N}{N}$		7		N	N	N	
9/6	1.00	-N	N	V	<u> </u>	N.	N	N	12
/	7500 7500		······································		1	N	N	Ν	
9/1	7:5%	2/	ΔI	4				M	190
	9:00 9:00	<u> </u>	<i>N</i>			N ₁	L.	N	
9/7	1,00	N	$-\frac{\mathcal{V}}{\sqrt{1}}$	7	-7,-1	No.	N	Ν	2
	I. PM		<u> </u>	<u> </u>		N	N	N	97

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Date Time Breach Damage Location Damage (if Y) (y/N) Properly (y/N) Prope	Inspection		Status	of Deterrent	Systems	Water			
26) 2			Fence	Bank		4.5551110			
9/8 7:8M N N Y Y N N N Y Y N N N N N Y Y N	2012	Dam (Y/?	ige Locat	. S. S. S. S. S. S. S. S. S. S. S. S. S.	Properly		(N. or Type Observed and action	Location	Inspector (Initials)
9/8 9/4M N N Y Y N N N N N N N N N N N N N N N				4	J.			ル	Æ.
9/9 7:00 N N Y Y N N N N N N N N N N N N N N N	9/8 9:	DD AM A	17	Ý,	Ä		LN	1	6
9/9 9:00 N N Y Y N N N N N N N N N N N N N N N	0/0 73	PM N		y Y	4	N	N N	N	80
9/03/30/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N/N		PM N	1	- Y	<i>y</i> /	N		N.	
10 8:3 PM N N I I N N N N N N N N N N N N N N N	0 /113	ν _Λ Μ'		X	X			2	87
9/0 (1) (1)	10 8:30	N M			4	N			The state of the s
	1/10 150	MN	N	X	¥			N	B
TO SOM N N N N N N N N N N N N N N N N N N N	1 538	MN	N	14	4		N	10	#

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of	Deterrent S	ystems	Wilder	Observations	***************************************	10000mm
		F	ence	Bank Cover	Noise Cannon	**************************************		AND DESCRIPTION OF THE PERSON	
Date 2012		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials)
9/11	9.00 9. AM	***************************************	\mathcal{N}_{\perp}	У <u> </u>	Y	N			JA.
7	/, PM		\mathcal{N}	y	Y	N		N	In The
1/2	6 AM	7 2	7	7	 	N	N	N	.Nf-
	9-00 AM	1/				N	N	N	他
1/12	(:00 PM	70	\mathcal{N}	7	7	n in in	1/	1/	12
1/	130 130 130	N	N	1	14	BLE HERONS - 3			
	7:00 PM	$N \downarrow$	N	Ϋ́	Y	N		$\frac{N}{N}$	4
1/13	9:00 1:00	$-\mathcal{N}_{+}$	N	$-\frac{1}{2}$	<u> </u>	V	N	N	H.
	/: I'M 7:023	$\frac{N}{\alpha}$	N	<u> </u>	7 1	<u> </u>	N	N	So
7/14	7:00 PM	W	$\frac{N}{N}$	$ egthinspace{-1mu}$	74	41		1/	K
and the second second second second	9:00 AM	N	W	- /	- 	N		4	K.
1/4	1. PM	N	\sim 1	<u> </u>	y		N	\mathcal{N}	

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

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Inspec	tion		Status of	Deterrent S	ystems	Wildelm	Observations		
Pease			ence	Bank Cover	Noise Caanon			***************************************	
Date 2012		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspecto (Initials
1/10	7:00 7:00 7:00			4	4			1	
96.6	7. PM 9.00 7. AM	N	N N	<i>Y</i>	 	<i>N</i>	N	Ŋ	
//15	1,00 HM	4/	N	7	4			N	A
7/16	7:00 AM 97:00	N	\mathcal{N}	4	4	, <u> </u>	N	N	P
91		$\frac{N}{N}$	$\frac{N}{N}$	<u> </u>		X	N	N.	农
1/16	1,00 PM		Ŋ	7	1/	N			
1/17	7.00 7.9.0 7.9.0	X	N			N	N		20
7	9100 9100	$\frac{N}{N}$	$\frac{N}{N}$	4		N		N	B
17	1:90 PM	N	N	Y		N	N	$\frac{N}{N}$	
10	130 AM 1030 M	2	7	8/	4	2		N	
	r-BWI	N	<u>N</u>	<u> </u>		N	V	N	CIL

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

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Inspec	tion		Status of	Deterrent S	ystems	Willia	Observations		
			ence	Bank Cover	Noise Cannon			**************************************	+ ec. (100 pt.)
Date VV		Breach/ Damage (Y/N) ^I	Location (if Y)	Oiled (Y/N)	Operating Properly (V/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken?)	Location	Inspector (Initials)
9/18	9:00					N. C. C. C. C. C. C. C. C. C. C. C. C. C.	N. T. T. T. T. T. T. T. T. T. T. T. T. T.		
Q /	1:00		N	V	1	V		K I	C_{II}
1/0	6'45M	N	77		<u> </u>	N.	N	N	
91	9:00	N	2 2	1		N	1	N.	CL
19/	2:07/M		N			N	Pessam dead in Jet	M	CIL
9/	(30M	7	N		V	N	THE WEE N		C.L
······	650 9.00	_	7	\ \	4	1	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	7	
9/20 P	12.300	7	7	7	1	N	V	N	Cil
a/ _ l		77						N	CIL
120	o AM O 45M	7	$\frac{2}{N}$			N. Johnson and Commission of the Commission of t	N	N,	并
9/5	1'00 _{AM}	N	N	7		N,		N	
121	OO _{PM}	N	N		V		N/	N	C. L,

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

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³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering







Inspec	ctiun		Status of I	Deterrent S	ystems	Widifa	Observations	······································	
		-	ence	Bank Cover	Noise Cannon		Exposed Wildlife Observed	***************************************	
VO(2		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ¹	Wildlife Observed (N, or Type Observed)	(N. or Type Observed and action taken ³)	Location	Inspector (Initials)
9/22	7:00		N	<u> </u>	4	N	N	1/	
1100	7:°PM			<u> </u>		N	N		A-14
9/1	9: AM	4	بر	1	7	N	N		AH
1/22	// PM	N	ひ	4	9	N	N		A.H
9/72	7500 AM	W		-Y.	4,	\sim		1	10
1/1/2	6:39·M	1	ν,	<u> </u>	<u>'</u>	N			AA
9/23	9:00 1:00	N,		4		BLUE HORROW		FF N	A-A-
1/63	/- PM	لم	Ν	<u> </u>	7	N	N	N	AN
9/24	7500 AM	1	$\sqrt{}$	4	4	N	1	1	10
1101	איו על	<u> </u>	N.	10/	$\mathcal{L}\mathcal{L}$	N			AA
9/24	JO DAM	_/\	_ لا	<u> </u>	4	N	N	N	AA
1101	[]OOPM	<u> </u>	للل	Y	<u> </u>	N	N	45	AA
aho	7:00	N	\mathcal{N}	4	Y		11/	11	
	63°PM	\sim	\sim 1	7′	91	A second and the seco	N	1	FU

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

quexcel-rouge/Srwwtp oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of	Deterrent S	ystems	Willia	Observations	······································	*****************************
	- Control of the Cont	<u></u>	ence	Bank Cover	Noise Cannon			**************************************	***************************************
Date 2012		Breach/ Damage (Y/N) ¹	Location (If Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. 6r Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
9/25	920 AM	***************************************	S	7	9	N	N	N	AA,
· (/	g. PM	R 1	N	1	1 /	N	a v		12
1/01	100 AM		N	<u> </u>	<u> </u>	N	N	l N	A
- We	12 PM 950		7	X		- N	N	M	0.2
9/26	/1//1	2	N	4	1	N	N	N	CL
	1 - No. Law	7	N	Ų	4	N	N	N.	0,1
101	7'22. 2 '20		7		4	N	N	N	16.
(A) 1	6 100m 9 20	<u>N</u>	2			\sim		N	CI
1/27/	1.50 1.50	N	N	1	1	N		N	(2)
	i i'M	2	<u> </u>			N	N		01
1/00	7:00 A. VM	N	N		4	N	N	N	
	G. G. FM	7	<i>N</i>	7	<u> </u>	N	V	V	O.Z
100	9:00 	101	N	1		Name of the second seco	V	N	CII
<u> </u>	1.00 pm	N	N			N		N	01

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

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Inspec	tion		Status of f	deterrent S	ystems	Widis	Observations		
			ence	Bank Cover	Noise Cannon				
1012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	L.ocation	Inspector (Initials)
4/29	T:00 AM		N	Ŋ	1	N	N	X	1 1
91	632 9:00		\sim	1		<u> </u>		N	CL
1/29	[OPM	N	2	1		N	The North Property of the North Property of	N	<u> [C.L.</u>
9/30	7:00 AM	N	N	7				N	S
* ("	الاس 12° PM 2 مر	\ \(\)	لم	4	7	N			Adi
4110	2° AM 6° РМ	<i>N</i>	\(\lambda\)	<u> J</u>	y 4	N	N	N	A.H.
	AM			<u> </u>			4	~	A-4.
	PM							***	
771 1111111111111111111111111111111111	AM								A STATE OF THE STA
	РМ	<u> </u>	TO CONTROL OF THE STATE OF THE	millionia proceedity in the motor of				V) 46554	
	AM PM			and another distribution of the sect	t ort commercial to commercial had also an analysis and an ana			***************************************	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon (Y or Location of Uncontained Oil²) (or "NA" if not applicable) Lagoon Ponds Lagoen (Initials) 2012 (Y or N) (Y or N) (Y or N) (Y or N) 7:00 AM NA NA 1000 N NA PM 30 N N N AM N N 19/2 9:00 AM NA NA :00 PM N 4.00 AM 12:30 N N M N PM 9:00 AM CO PM 30 N M N AMN N

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column, (Sample; "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time Lagoon (Y or Location of Uncontained Oil2) Lagoon **Ponds** (or "NA" if not applicable) Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) N 9:00 AM \mathcal{N} 130 X (D) 7:00 AM 1:50 PM 7508 XN N N NA N Q.00 N N N NA AM1.00 N PNN 7:00 N PM 00 N N N AM 00 N N

¹ A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column, (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Response Action Taken, Comments, and Explanations Diked Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil2) (or "NA" if not applicable) **Ponds** Lagoon (Initials) (Y or N) (Yor N) (Y or N) (Y or N) 2012 7:00 AM PM 9:00 N N AM .00 PM 50 N PM 9.00 N N NA AM 60 N PM 16:30 N AM 930 N K. PM 9:00 AM 600 PM 16:30 AM 830 HK

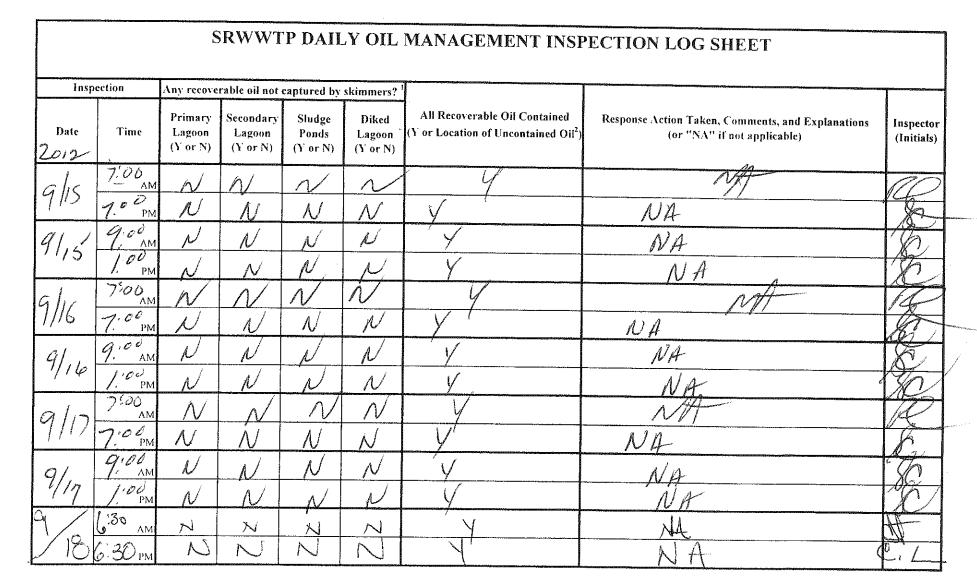
A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? Primary All Recoverable Oil Contained Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil2) **Ponds** (or "NA" if not applicable) Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9:00 N IJ NA ΛM :00 N 16.30 N B:30 PΜ 9:00 PM ΛM PM 9:00 AM 7:00 00 NA PM 9.00 N NA ΔM 100 NA

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

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Insp	ection	Any recove	rable oil not	captured by	skimmers?	1,00		
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
9/18/12	i i, vw	N	N	7	1)	A	NA	CIL
	l. PM	N	N	N	7	1	NA	C.L
9/	PHS VW	N	N	N	N	Y	AL	M
/ 19	6:29M	N	N	N	N		NA	T.
9/.a	9:00 _{AM}		N	___	N,		NA	GIL
,1 /	200 PM	7	7	Ν	7		AM	412
9	630 AM	N	7	N	N	1	Nt	#
/10	630 _{PM}	7	7	N	N		NA	CLIL.
9/20	9,00 MA	N	N	N	N	1	NH	CIL
	12:30рм	_ ~	N	N	N		NA	CL
9/01	6245 AM	N	N	N	N	Y'	Not	4
<u>/ 81</u>	645pm	N	N	N	N	Y	NA	CILI
7/21	9 :00 AM	N	N	N	N	1	NA	C,L
10001	1,00 _{PM}	N]	N	N	N	7	NA	01

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	Inspection Any recoverable oil not captured by skimmers? 1				slåmmers? 1			
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
G/77	7:06 AM	\mathcal{N}	N	N	N	4	NA	12
7166	6,30 PM	\mathcal{N}	10	<i>/</i> /	N	'7	<u> </u>	1.14
9/22	9:00 AM	N	1 1	ئم	4	4	NA	A. H.
9/22	(00 PM	2	N	ک۸	کم	4	NA	AHO
/	7:00 AM	N	N.	N	N	Y	NA	1
9/23	6.30 PM	N	a)	N	1	14	NA	AH.
al.	9:00 AM	7	1	7	M	7	NA	A.4
9/23	(00 PM	N	V	N	N	Y	NA.	AA
9/24	7:00 AM	N	N	1		Y	M	140
7/24	630 PM	N	N)	لا	7	9	NA	A.H.
9/14	9:00 AM	N	N)	ک	χÚ	9	NA	A.H.
1101	(, 30 PM	N	N	لم	Ν	4	NA	AH
-/-	> 00 AM	6/		N	N	X/ ,	MA	120
1/25	6:30 PM	A	ZJ	N	Ú	79	Al A	AH

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? 1 All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Secondary Inspector Primary Sludge Diked (Y or Location of Uncontained Oil2) (or "NA" if not applicable) Date Time Lagoon Lagoon Ponds (Initials) Lagoon (Y or N) (Y or N) (Y or N) (Y or N) N کام 9:00 AM N .00 ΑM '00 19/26 00 N AM m 100 PM 1.00 N AM, N N N 0.6 .00 PM 700 AM. 400 N 7 0

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection	Any гесоve	rable oil not c	captured by	skimmers? ¹	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)		
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)		Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
9/29	7,00 AM		20	2	N	7	NA NA	0 L
9/2a	9:00	N	N	- Same	N		NA	CIL
127	6:30 PM		M	N	N	1,	NA.	
G/ZA	7:00 AM		N	\sim	N	<u> </u>	NA	1
1/30	/00 PM	N	15	N	كبر	<u>'</u>	NA	A. A
9/30	9:00 AM	N	7	N	13	4	NA	A-H
1190	6:30 PM	\sim	ل۸	N	N		KA	XH
16/1	AM				,			
	PM							
(MA)	AM						•	
.vv (r (PM		ļ					
	AM							
	PM						• .	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).





September 14, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: August 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The August monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the August operators' inspection logs. No wildlife was potentially exposed in the month of August.

Please contact me at (313) 845-3217 or Lan Trinh at 313-323-1260, if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDEQ

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR August 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Inspection Summary and Report Sheets	Appendix A
Oil Hauling Manifests	Appendix B

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period August 1 through August 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the August inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in August. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.

- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in August 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In August, there were observations of morning-dove, golden finch and blue herons overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

6,200 gallons of oil-water mixture was hauled off-site in the month of August 2012. Copies of the manifests for the loads are attached in Appendix B.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

Inspections 124	Bird	Overflights 2	Interest Shown	Location Near Secondary Lagoon	Number of Horn Blasts 5	Result Flew away

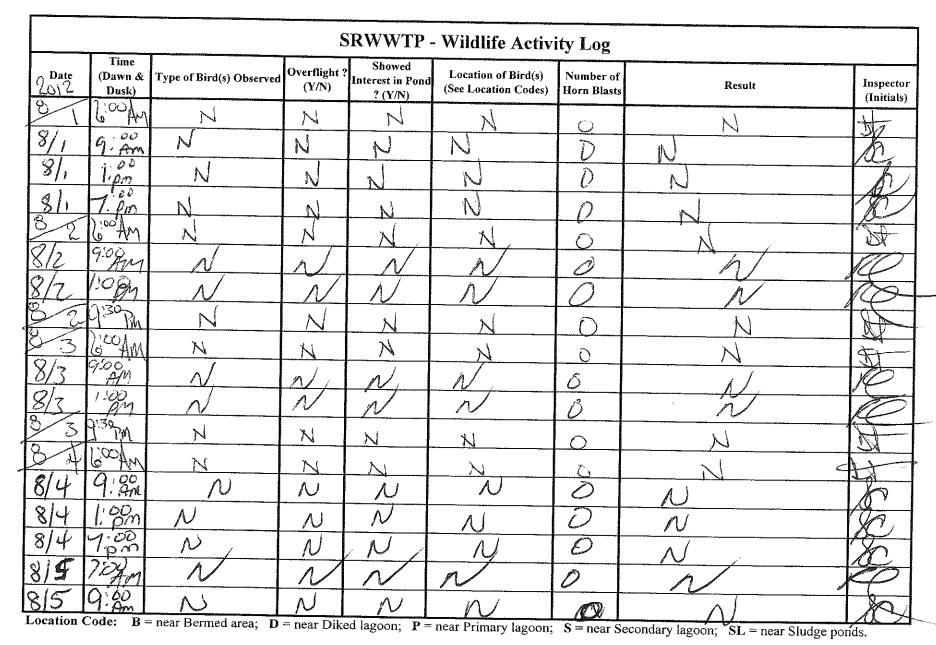
^{*}During dawn and dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

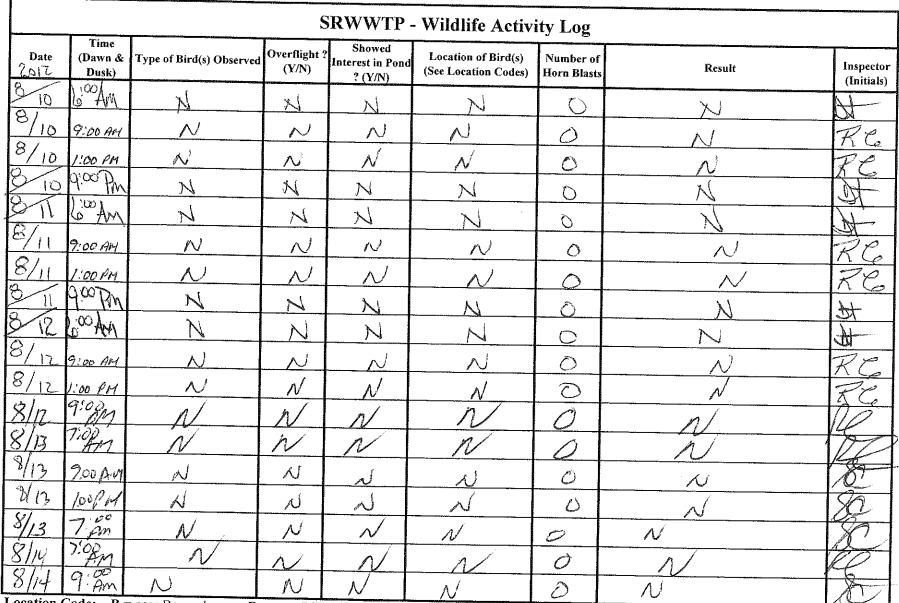
Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	31 days	31 days	None	None
·	<u> </u>	<u> </u>		ĺ

SUMMARY OF DAILY OIL MANAGEMENT LOG

neport of Rec	coverable Oil N	lot Captured	(by Skimm€	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No 1	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.



			2	KWWTP-	Wildlife Activi	ity Log		
Date 012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspecto (Initial)
5/5	1:080		N	N_{\perp}	V	0	<i>N</i>	
8/5	7:00	N	Ŋ	N	N	0	N	n
8/6	7:00 AM	N		N	N	3	1	Z
3/6	9:00	\sim	N	N	2	0	N	1/8
8/4	1:00	N	N	N	7	0	N	
16	7:00	\sim	Ν	N	N	0	ΛJ	TA
8/7	7:62	N	\mathcal{N}	N	N	0	0/	100
17	9.98	N,	\mathcal{N}	N	\sim	0	N	1/27
[7]	1:0BM	\sim	\sim	N	\sim	0	N	1/80
41	7:00m	\sim \sim	N	N	2	0	N	199
18	7:00 M	\mathcal{N}	N	N	\sim	6	N	120
	7.00m	N	N	N	\sim	0	N	一下
/ 8'	1:00 pM	N	N	N	N	0	N	12
78	1:00	N	N	N	N	0	N	
<u> ~ [</u>	100 AM	N	N	N	N	0	N	147
/ 9	1:00 AM	N	\mathcal{N}	N	\sim	0		RC
9 7	:00 PM	\sim	N	N	N	0	N	70
):30 PM	N	N	N	N		condary lagoon; SL = near Sludge	- H



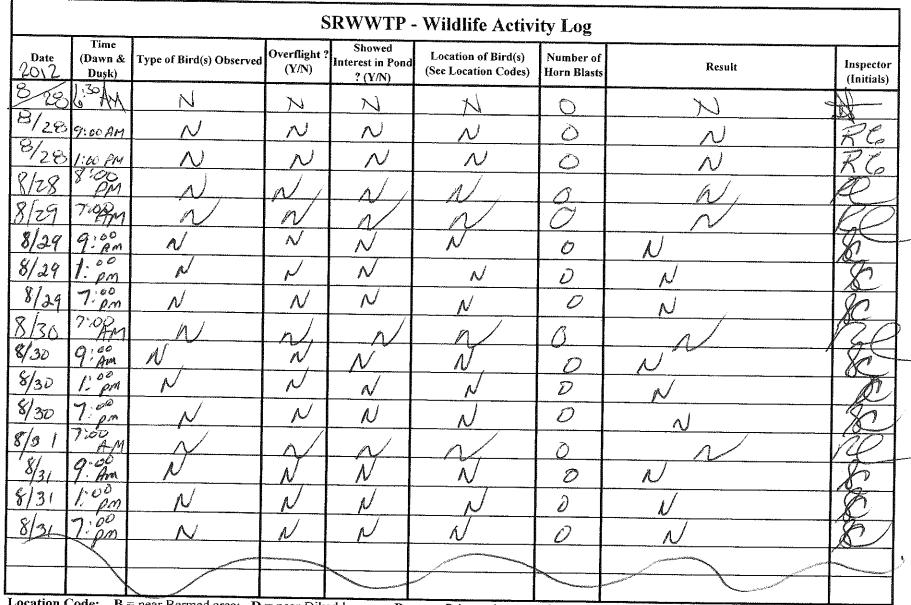
Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

·			S	SRWWTP -	- Wildlife Activ	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed		Showed Interest in Pond ? (Y/N)		Number of Horn Blasts	Result	Inspecto (Initials
8/14	1:00 1:00	\sim	\mathcal{N}'	\mathcal{N}	V	\mathcal{O}		6
8/14	7:00 7:00	\mathcal{N}'	\mathcal{N}	N	N	0	\mathcal{N}	1
8/15	7.00 AM	N	N	Δ	N	1)	1/	1
8/15	9:00 AM	morning Dave	N	N	.At S	0	flaw away	135-
8/15	1.00m	GolDen (MAID Finch	\mathcal{N}	\sim	S	0	flew augus	100
8/15	1.00m	\sim \sim	\sim	2	N	0	0 0 3	To
8/16	7:00 7/1			n/	N	0	N	P
8/16	9:00 1-Am	\mathcal{N}	N	N	N	0	N	1 Do
8/16	1:00 - pm	N	N	N	N	©	N	2
8/14	7.00	\mathcal{L}	N	N	N	0	N	X
77	1 m 200.	N	N.	N	N	0	N	A.
8/17	CO AM	\sim			\sim	0	N	20
/ 17 L	1:00 PM	\sim	\mathcal{N}	\sim	\mathcal{N}	0	N	RC
	[∞] P _N	N	N	N	N	O	N	W
	MASS	. N	N	N	N	Ö	N	M
' 10 7	100 AM	N	<u>N</u>	<u>N</u>	2	<u> </u>	2	R 6
1 1 2	:00 pm		N	N	2	0	2	RC
1/3/	100 Pm	near Bermed area; D	N	N	73	0	N	- N

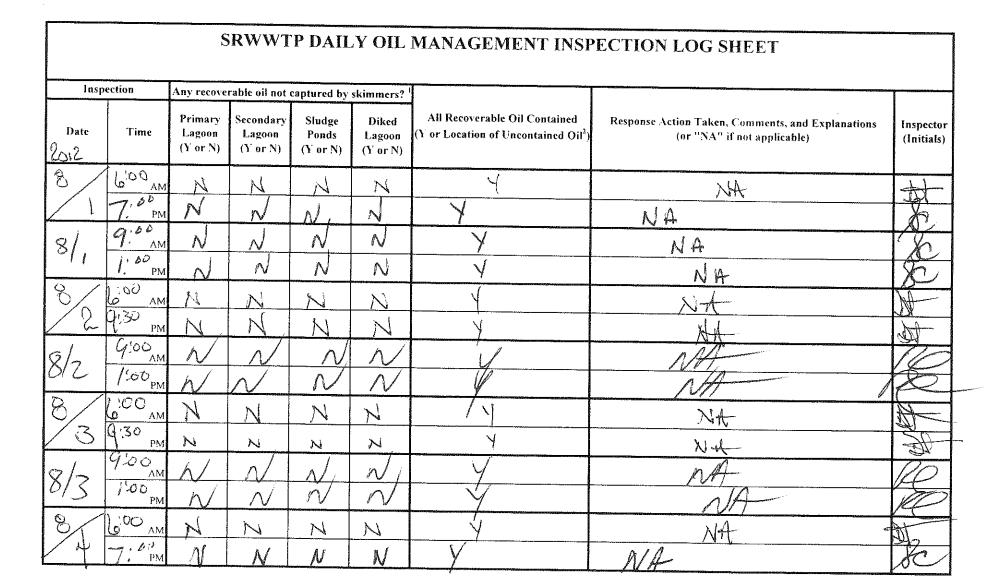
Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

	_		S	SRWWTP -	Wildlife Activ	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspecto (Initials)
219	1:00 Am	N	N	N	N	D	N	14
44	9:00 AM	\sim	\sim	\sim	\sim	0	N	RY.
/19	1:00 PM	\sim	N	N	N	0	N	RC
19	M900:1P	N	N	N	N	0	N	龙
20	MACO: 3	N	N	N	N	0	N	M
20	7:00 AM	\sim	\mathcal{N}	\mathcal{N}	\sim	0	N	RC
/20	L'OD PM	N	N	N	N	0	N	RC
75	8:09M	1	N	N/	n)	0	A)	10
12/	7. 9AM	n/	N	h/	N	0	n	1
	9.00 9. Am	N	N	N	N,	0	N	18ca
/21	1.00 1.00	$\mathcal{N}_{\mathcal{N}}$	N	N	N	0	N	8
121	7:00 pm	N	N	N	N	D	N	C
122	7:00 Am 9:00	N	N	N	\sim	0	N	2
22	9. AM	N	N	N	\sim	0	N	as .
22	1. pm	N	N	N	N	0	N	1 DE
22	7100 7:00	N	N	jV	N	0	N	De
12.3	9.00	N	N	N	N	0	N	120
23	1 11	N	N	N	N	0	condary lagoon; SL = near Sludge po	10

			2	RWWIP-	· Wildlife Activi	ity Log		
Date とり、2	Time (Dawn & Dusk)	Type of Bird(s) Observed		Cl. I	T C TY TO	Number of Horn Blasts	Result	Inspec (Initia
8/23	1: pm	N	N	N	N	D	N	The
8/23	7:00	N	N	N	N	0	N	12
3/24	7:00 AM	ρ	Λ	\sim	N	1)		12
3/24	9:00 AM	N	N	N	N	0	N	77
8/24	1:00 PM	N	N	N	N	0	N	77
20	d:003M	N	N	7	N	O	N	14
	Pooted	N	N	N	N	5	N	T.
{ ^ ^ 	9:00 AM	N	Ν	N	\sim	0	N	R
138	1:00 PM	<u> </u>	N	N	N		N	R
25	9:00PM	1	N	N	N	0	N	12
,	6:30 AN	HERON, BLUE	1-74	N	SA	3	FLEW AWAY	14-
146 7 1	7:00 AM	N	\mathcal{N}	-N	\sim \sim	0	\sim	80
771a H	1:00 PM	N. O	N	N	\sim		N	RC
	100 PM.	HEBOY ENLE	7	N		2	REW AWAY	M
3/_	:30 AM		N	N	N	0	N	1
121 9 11	:00 AM	\sim	$-\mathcal{N}_{\perp}$	\sim	\sim	0	\sim	RC
1211	100 PM		\sim		\sim \sim	0	\mathcal{N}	\$G
Cht M	100 PM	N	N	N	N	0	econdary lagoon; SL = near Sludge	ENJ-



Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.



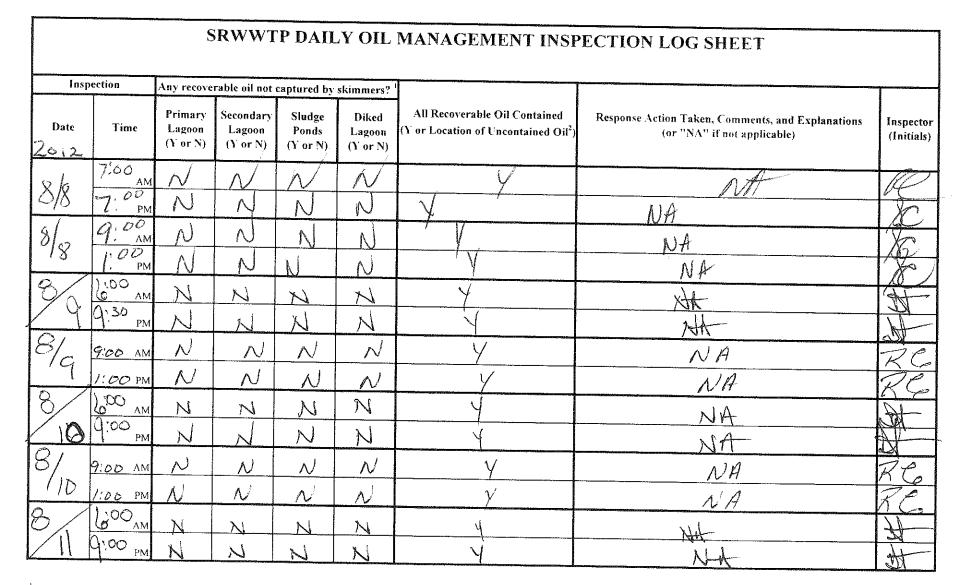
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		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	PECTION LOG SHEET	
Inspe	ection	Any recove	rable oil not o	aptured by	skimmers? 1			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
8/4	1:00 PM	7	N	N	N	Y	NA	
8/5	7:00 7:00 PM	N	N	N	N	7	NA	The second second
8/5	O DO PM	N,	2	N N	\	Y,	NA	X X
8/6	7:00 7:00 PM	N	N	N	N	V	NAM	
8/6	9.00 AM	Λ	N	N	N	Y	NA	
3/7	7:00 7:00 1:00 PM	N	Ŷ	N	N		NAM	R.
3/4	Q. OD AM	2	22	N	Ň	Y	NA	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil²) Ponds (or "NA" if not applicable) Lagoon (Initials) (Yor N) (Y or N) (Y or N) (Y or N) 9:00 AM 1:00 PM 600 ΛМ 9:00 PM N 9:00 AM 1 :00 PM 100 PM N 1 N OPM 7.00 ΑМ

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? Primary Secondary All Recoverable Oil Contained Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil2) **Ponds** Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9:00 AM 18 1:00 PM 600 0000 8 9:00 AM 19 KOO PM 6:00 9:00 AM PM AM NA PM AM 00 PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? Primary All Recoverable Oil Contained Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil2) Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 2012 00 AM 00 AM PM PM 00 AM 123 .00 PM 7:00 AM :00 N NA N 9:00 AM NA N PM N 1:00 16:00 NA 0:00 NA

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon (Y or Location of Uncontained Oil²) Lagoon Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 18/25 N N 9:00 AM N \mathcal{N} NA 1:00 PM N 130 N N N AM NA 00°C PM 8 9:00 AM /26 PM 1:00 Ú.; · 0:00 N PM N N 7:00 AM :00 PM AM **切:0**0 AM

PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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		S	RWWT	'P DAIL	YOIL	MANAGEMENT INSP	PECTION LOG SHEET	TO THE STATE OF TH
Insp	Inspection		rable oil not	captured by	skimmers? 1			1
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
8/29	7:00 1:00 PM	N	N	N	N	Y	M	Æ
129	9:00 1:00 1:00	N	N	N	N	1	NA	K.
8/36.	7:00 AM	N	N	1	N		NA NA	
8/30	9:00 1:00 PM	N	\ \ \	N	N	<u> </u>	NA	8
8/3)	7:00 7:00 PM	N	N N	12	N	4	NA	Ja.
8b1	9:00 1:00 PM	N	N	N	N	<u> </u>	NA	JC JC
	AM PM							

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).





Inspec	tien,		Status of	Deterrent S	ystems	Wildlife Observations			
			ence	Bank Cover	Noise Cannon	市中美国委員會			
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action faken ⁵) Locat	Location	Inspector (Initials)
8/1	1,00 17,00	Α /	7	7	<u> </u>	N	N	N.	为一
	1. PM	,	N_{I}	Σ,	<u> </u>	N	N	N	太
8/1	J. DC J. PM		N	7	<u> </u>	Λ	I N	N	ka
	(20°2)	The state of the s	M	/	<u> </u>	N	N	N	To the second
) [0 AM 01:30 1:30 1:41	<u> </u>	<u> </u>	7	- 	N		N	AR.
T.	9:00 AM	$\sqrt{\mathcal{N}}$	N	V		A desired to the second	N	N	
3/2]: 00 PM	***************************************	$\frac{1}{\lambda}$				N	\mathcal{N}	10
2 /	(00°, (N	N	\mathcal{I}_{V}					P
3	9:3PM	N	N	Y	V	N	No.	N	一位
2/3	900 AM	N	W	V	J'			N N	一人
)/)	PM	N	N	4	- V-1	- Al-f	and the second s	N	B.
8/);02; MA 6	N	N	Y	4	N		44	
<u> </u>	7%	N	N	Y	X		A I		女
"Vor" (V).				Location		and the same of th		/V	1Q /

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspection			Status of I	deterrent S	ystems	Wildlife Observations			
wa			ence	Bank Cover	Noise Cannon	TELEST.		***************************************	To the second se
2012		Breach/ Damage (Y/N) [†]	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. 0r Type Observed)	Expused Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
8/4	9:20 1:00	X	$\frac{N}{N}$	Y	Y	N	T. A. T. T. T. T. T. T. T. T. T. T. T. T. T.	N	8
0/-	7500	N	N	Ž				N	Jo
8/5	7.1% 0.00	N	<u> </u>	//		N	N	4	R
8/5	9:00	\	$\frac{N}{N}$	Y_{V}	$\mathcal{Y}_{\mathcal{T}}$			1	10 J 10 C
8/6	-, 00	N.	4	4	4			\mathcal{N}	80
8/1	7.00 9.00 9.00	$\frac{1}{2}$	$\frac{1}{N}$		- X- -	A.	N. A. A. A. A. A. A. A. A. A. A. A. A. A.	N	E
Y	1:0t 7:00	N	N	Ý,		N	N	N	R
8/1	7:00 7:00	7	\mathcal{A}^{+}	$\sqrt{1}$	\				X.
8/2	3.789 3.789	ŊŢ	N	X 1	Y		N	4	
	PM			<u> </u>	<u> </u>	1)	A Commence of the Commence of	/ /	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	ystems	Wildlife Observations			
<u>.</u> .		Fence		Bank Cover	Noise Cannon	***		***************************************	
Date <u>2012 </u>		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ⁵) Location	Location	Inspector (Initials)
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^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspe	ction		Status of [Deterrent S	ystems	Wildlife Observations 1					
Date 2012	Time	Fence		Bank Cover	ik Nair 6	385851848	1 West asing	-	***************************************		
		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials)		
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¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ¹ "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspection		<u> </u>	Status of 1	Deterrent S	ystems	Wildlife Observations				
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^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	.f 16183		Status of	Deterrent S	ystems	######################################	F23		
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^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	\$ 14:125		Status of i	Deterrent S	ystems	Water and	OL .		
		F	ence	Bank Cover	Noise Cannon	***************************************	Observations		
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[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

qu'excel rouge Srwwtp oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.



Inspec	ction		Status of	Deterrent S	ystems	Leaving	Phservations		Germanian and an and an an an an an an an an an an an an an
		ŀ	ence	Bank Cover	Noise Cannon	The state of the s		-	economy (No. 1974)
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^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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Inspe	. , , , , , , , , , , , , , , , , , , ,		Status of Deterrent Systems			Wildlife Observations					
	***************************************	-	спсе	Bank Cover	Noise Cannon	***************************************					
Date 2018		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials)		
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¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

givexcel-rouge Sewwip oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.

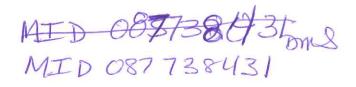
APPENDIX B

Oil Hauling Manifests

Γ		FORM HAZARDOUS	ned for use on elite (12-pi 1. Generator ID Number		2. Page 1 of	3 Emero	ency Respon	sea Phone	4. Manifest	For	m Approved.	OMB No. 2	2050-0
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August 15, 2011

<u>Via Certified Mail – Return Receipt Requested</u>

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: July 2011 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant ('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The July monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the July operators' inspection logs. No wildlife was potentially exposed in the month of July.

Please contact me at (313) 845-3217 or Lan Trinh at 313-323-1260, if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager ' Environmental Engineering

Enclosures

cc: Mr. John Craig, MDEQ

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR July 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

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CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Inspection Summary and Report Sheets	Appendix A

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period July 1 through July 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the July inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in July. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.

- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in July 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In July, there were observations of killdeers, morning-doves, and robins overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of July 2012.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
124	23	1	0	Near Berm area	31	Flew away. Some birds flew away and then come back or flew to another area after horn blasts.

^{*}During dawn and dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	31 days	31 days	Killdeers, Morning Doves, and Robins	None

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	lot Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.

			S	RWWTP -	- Wildlife Act	tivit	ty Log		
Date 2012	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s (See Location Code		Number of Horn Blasts	Result	Inspector (Initials)
7/1	7:00m	N	7	7	7		0	N	<u> </u>
7/1	9:00 AM	N	N	N	N		0	Ν	RC
7/1	1:00 PM	\sim	\mathcal{N}	N	\mathcal{N}		0	Ν	RC
7/1	8100 PM	\sim	\mathcal{N}	\mathcal{N}	N		0	\mathcal{N}_{\perp}	B
7/2	7:00 AM	N	N	N	\mathcal{N}		0	N	14
1/2	9:00 001	N	N	N	\mathcal{N}		0	\mathcal{N}	RG
7/2	L'DO PM	Ν,	\sim	\sim	<u> </u>		0	\mathcal{N}	Ble
7/2	7.00	N	_/V	\mathcal{N}_{-}	<u> </u>		0	\mathcal{N}	1XC
7/3	STANAIN	' <i>N</i>	N	\mathcal{N}	N	_	0	N	X
7/3	9:08 AM	N	\sim	\sim	\mathcal{N}		0	\mathcal{N}	RC
7/3	1:00 PM	\sim	\mathcal{N}	$\mathcal{N}_{\mathcal{L}}$	N		<u> </u>	\sim	RE
7/3	\$ 00	\sim	\mathcal{N}_{I}	$ \wedge$ $/$	$\mathcal{N}_{\mathcal{A}}$		0,	\mathcal{N}	10
7/4	7.00 7.00 7.00 7.00 7.00	\mathcal{N}	Δ	\mathcal{N}	\mathcal{N}	_	0	\mathcal{N}	14
7/4	J. A.	\sim	_ <i>N</i> _	N	N	\perp	0	$\mathcal{N}_{\mathcal{N}}$	NO.
7/4	1:004	Ņ				_	0	<i>N</i>	
7/4	1: 2 m	N	N	N	<u> </u>		<u>2</u>	\sim \sim	18C
715	7:00 AM		N	\mathcal{N}	\mathcal{N}		0		RP
7/5	9:00	N September 1	N	N D	N		<u> </u>	\mathcal{N}	180

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

FORM SRWWTP 1.03 DATE: 2/24/2001

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			S	SRWWTP -	- Wildlife Activi	ty Log		
2017	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/5	1:00M	N	N	Ŋ	N	8	N	182
9(5	7:00 m	Ŋ	N	N	N	Q	N	
7/6	780	N	1	\mathcal{N}	\sim	0	N	VE
7/6	7. An	N	N	\sim	N	0	N	æ
7/6	1:00	W	N	Ν	\sim	0	\mathcal{N}	X
7/6	7:00	2	Ν	\sim	\sim	0	N	120
7/7	7:20 AM	\sim	\sim	\mathcal{N}	\sim	0	\sim	1
7/7	9.00	N	\sim	N	\sim	0	N	100
7/7	1:00 pm	N	N	Ν	N	0	· N	
7/1	7. Fm	N	ρ	\mathcal{N}	Ň	0	N	180
18	(CO)M	N	N	N	N	0	N	3
7/8	9:00 AM	\sim	\sim	N	\sim	0	N	RG
7/8	1:00 PM	\mathcal{N}	\mathcal{N}	N	N	0	\mathcal{N}	RG
10	7:30 Pm	KILLDEER	N	N	I	2	NO EIFECT	#H-
<u> </u>	1:00/m	KILLDECK	N	N	B	2	No Effect	77
7/9	ZIBO AM	N	\mathcal{N}	_ N	N	0	\sim	RC
7/9	1:00 PM	KILDEER	N	\sim	B	0	FLEW AWAY	RC
196	N9 Oct	= near Bermed area: D	N	N	Λ/	()	N	W

Location Code: B = near Bermed area; D = near Diked Iagoon; P = near Primary Iagoon; S = near Secondary Iagoon; SL = near Sludge ponds.

			S	RWWTP -	- Wildlife Activi	ty Log		
Date 2012	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
70	P:00/1W	Modurik Toutis	7	X	3	5	They huse	发
	9:00 AM	N	\sim	N	\sim	0	N 1	RG
7/10	1:00 PM	$\sim \sim$	N	\sim	~	0	N	RG
10	9:30 PM	Kill DEEPZ	N	N	<u></u>	2	FLEW AROUNS	3
71	P.00/W	MORNING DOUBS		X	3	2	Thew Away	7
7/11	91.00 AM	\sim	\sim	-N	\sim		N '	RE
7/11	1:00 PM	N	\sim	\mathcal{N}	\mathcal{N}	0	\mathcal{N}	RC
2/11	8:09M	N		W		0	N	RG
7/12	7:00 AM	N	N		N	0	N	15
7/12	9.00 Am	N	N	N	N	0	\mathcal{N}	
1/12	1.00 1.pm	N	N	\mathcal{N}	N	0	N	
7/12	7:00	N	N	N	\mathcal{N}	0	N	10
2/13	7:02M	N	Δ	1/	\mathcal{N}	<i>(</i>)	N	14
7/13	9:5m	N	\sim	N	W	0	\mathcal{N}	100
7/13	1:pm	N	N	N	N	0	N	
7/13	7:00	\sim	N	\sim	N	0	N	12
7/14	7:00 AM	1	<u> </u>		1/	0	N	120
7/14	9:00 Am	= near Remod area: D	Ň	\sim	N	0	N	120

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

			S	RWWTP -	- Wildlife Activi	ty Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
7/14	1.00 PM	N	\mathcal{N}	\mathcal{N}	N	0	N	X
7/14	7:00 PM	N	N	N	N	D	N	I/C
7/15	7:00 AM	\mathcal{N}	\mathcal{N}	\sim		0	N	19
7/15	9.20	2	\mathcal{N}	\sim	N N	D	N	80
7/15	1.00	N	N	Ν	N	0	N	X
7/15	7:00 7:00	Ν	Ν	N		0	N	SC
16	6 VM	Modurists Doves	N	N		2	Place Ausky	
	9:00 AM	<i>N</i>	~	~	N	0	\sim	RG
7/16	LOC PM	Ν,	~	N	\sim	0	\mathcal{N}	RC
7 T6	930 PM	Mouzina Doux	~_	\sim	3	2	Flas Away	4
17	60An	HOLIZING BOIS			3	2	Alexa Away	
7/17	9:00 AM	Monarry Doves		\mathcal{N}	B	0	Flew Away	R C
7/17	1:00 PM	$\sim \sim$	$-\sim$	-N	\sim	0	\sim	RG
	9:30-7M	MOURING DOVER KI HEER	_X	N	<u> </u>	2	Atter Augy	to
110	6:00AM	MOUZING DUR	_ N	N		2	FIEW AUNY	<u> </u>
	1:00 AM	\sim	/_	$-\sim$	\sim	_0_	ω	RC
7/18/	1:00 PM	\sim	\sim		\sim	0	Y	Re
	1.307M	MOURING DOWN	N		B	2	FLEW AWAY	並
Location C	.oue; B	- near dermed area; D	= near Dike	d tagoon; P =	near Primary lagoon;	S = ncar Se	condary lagoon; SL = near Studge	ponds.

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,			S	RWWTP -	- Wildlife Activi	ty Log		
Date Colle	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
7 19	F.00 AN	Maria Doutes	N	7	<u></u>	7.	FREW AWAY	The state of the s
7/19	9:00 AM	\sim	\mathcal{N}	\mathcal{N}	\sim	0	\sim	RC
7/19	1:00 PM	MOURNING DOVES	N	\sim	B	0	FLEW AWAY	RE
2/19	8100	\sim		N	n/	0	\mathcal{A}	RO
7/20	7:00 M	\sim	1	N		0	\sim	100
	9:00 AH	\sim	\sim	\sim	\sim	0	\sim	RE
7/20	1:00 PM	\sim	\sim	\mathcal{N}	\sim	0	N	RC
7/20	8:09/4	N	N	\sim		0	N	
2/21	7.92	N	n/	N	n/	0	\mathcal{N}	
72	M. AW	N	7	N	N	0	N	
7	1:00PM	N	7	Z	N	0	N.	D)
2/21	8.084	\sim	1	\sim	\mathcal{N}	0	2	RO
2/22	7:00 AM	\sim	Λ	Λ		0	N	100
7 22	9:00 Am	N	N	N		0	N	<u>H</u>
7 22	7000	N	N	N	N	\mathcal{O}	N	
7/22	8:00 M	α	1	N	1/	0	N	RO
7/23	7:09 AM	N	1/	N	n/	0	N	R
7/23	9:00 AM	\sim	N	\sim	, N	0	\sim	RE

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

			S	RWWTP -	- Wildlife Activi	ty Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
7/23	100 pm	\mathcal{N}	\sim	\sim	\sim	0	\mathcal{N}	RC
+ 23	9:30 PM	N	N	N	X	\circ	N	D
	6:00 Am	MOURNING DE	7	_ 7		2	AtEW AWW	
7/24	9:00 AM	Robins	N	\sim	B	0	FLEW AWAY	RC
7/24	1:00 PM	MOURNING DOVE	\mathcal{N}	\sim	В	0	FLEW AWAY	RG
7 21	7.50 PM	MOURINE DOUS	N	N	B	\mathcal{O}	the how	M-
25	L'∞ AM	N	7	N	N	D	N	M
	7:00 AM	Mouening Doves	Ν	\sim	B	0	FLEW AWAY	RC
7/25	1:00 PM	7	N	\sim	2	0	N	RC
1 25	9:30 PM	N	N	N	N	Ü	N	D.
26	ו ססיו	MOURING DOJES	~	N	B	2	Piew Away	DE
7/24	9:00 AM	MOVENING DOVES	\mathcal{N}	N	B	0	FLOW AWAY	RG
1/24	1:00 PM	N	\sim	\sim	\sim	0	N	RC
7 210) 00 PM	N	N	N	N	O	N	#
107	200 AM	Ν	N	N	N	0	N	9
7/27	9:00 AM Robins		N	\sim	B	0	FLEW AWAY	RC
7/27	7 1:00 PM N		N	\sim	$\mathcal{N}_{\mathcal{I}}$	0	N	Re
7/27	7.00 AM	= near Bermed area: D	N	<i>N</i>	N	0	^/	120

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Studge ponds.

•			S	RWWTP	- Wildlife Activi	ty Log		
Date 2012	n	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
7/28	7-20mg	N	1	Ñ,	N	0	n)	A
7/28	4.00m	1	1	n	N	0	n/	1/
1/28	100 PM	N	N	7	N	0	Ń	一近
]/28	8:08	N	N	N	N	0		Re
7/29	7.9Pm	\sim	\mathcal{N}	N	\sim	0	\sim \sim	130
7/24	9.00 1.2m	\mathcal{N}	\sim	\sim ,	\mathcal{N}	0	\mathcal{N}	
7/29	1:00	\sim	N	\mathcal{N}	\mathcal{N}_{ℓ}	D	N N	X
7/29	7.00 1.00		N	$\mathcal{N}_{\mathcal{I}}$	N	0	N	1 XC
7/30	7:08M	N	N	N		0	\sim \sim	14
7/30	9:00 1:00	<u> </u>	N	<u> </u>	N	0	N	100
7/30	7.00	Ν	N	N	N	0	N	3c
7/30	1 . 13 /65	N	\sim	N	N	0	\mathcal{N}	100
7/3/	7:00 M	\sim	\mathcal{N}	\mathcal{N}		0		RO
1/31	9:00 Am	<u>ν</u>	N	N	\sim	0	N	100
7/31	1.00m		N	_ N	\sim	0	\mathcal{N}	&C
7/31	7:00	<u>N</u>	<u>~~</u>	N	\sim	0	\sim	100
		= near Romad area: D			D.			

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.



Inspe	F F 14341		Status of I	deterrent S	ystems	Wildlie	Observations		100 / Santa Anna (100 / Santa
	-	_	ence	Bank Cover	Noise Cannon	2 614 515			
Date 2012		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)
7/,	7.00 7.AM 8,00 PM	***************************************	<u> </u>	Y	У	N	V		
/ } ····································			$-\mathcal{N}$	<u> </u>	4	N		1/	100
7/1	9:001M 1:001M		<u>~~</u>	- 	_ 'Y 	\sim	N	N	RG
7/5	7:00	N	$\frac{\sim}{\Lambda/1}$	V	7	$-\frac{\mathcal{N}}{\mathcal{N}}$	N	N	RE
7/2	7:9°M		N	1/	4 4	N		1	Q_
112	7:08 AM	N	~]	<u> </u>	y	N		W	
· · · · · · · · · · · · · · · · · · ·	1:00 PM 7:00 1:00	- 	-~ /-	- }	<u> </u>	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	N	\mathcal{N}	100
7/3	7.95M	$\frac{N}{N}$	$\frac{N}{N}$	$- \langle - $	- 	N	N	N	R I
	7.00M	~	7		<u> </u>	N	N	\sim	纵
7/3	I:0PM	N	N	$\frac{1}{\sqrt{1}}$	<u> </u>	$\frac{\mathcal{N}}{\mathcal{N}}$		\sim	RG
7/4	7:93	1	N	1/	4	1		N	SS
/ -/	7:网	N	N	141	/ V	1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 - 1994 -	N	N	6

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

quexcel-rouge Srwwip oil management insp. log sheet

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec		ļ	Status of t	deterrent S	vštems	Wildlife Observations 1				
6-1	the whitemparameters		ence	Bank Cover	Noise Cannon			***************************************		
2012	1	Breach/ Damage (Y/N)	Location (if V)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ⁵)	Location	Inspecto (Initials)	
7/4	9.80		N	y	Y	N	V	N	L S	
***************************************	7:00 7:00	$\lfloor N \rfloor$	N	<u> </u>	<u> </u>	N	N	N		
7/5	7.00°M	N	$-\mathcal{H}$	\mathcal{A}	V /	-N	· N	1	12	
71.	9.00	Ν	N	7	- /		N. C. C. C. C. C. C. C. C. C. C. C. C. C.	N	烦	
1/5	1.00 I'M	N	Ν	Y	4	N	N.	N		
7/1	7-00 AM	- G	4	4	4	N	T N			
16	7. PM 9.0% M	$\frac{N}{N}$		Ż	· V	N	N	N = N		
16	1, AM 1, PM	$\frac{N}{N}$	$\frac{N}{N}$	- 	<u> </u>	\mathcal{N}_{q}	N	N	X	
, <u>[</u>	7:00 7:00	7/			4/	<u> </u>	N	N		
(/)	7:10 7:10	N	<i>N</i> . I	7	77+	- /V			K	
1/7	9100 910M	N	W	Y	41	N		$-\frac{\mathcal{N}}{2}$	4	
	1:9h	N	N	7	Y	N		N		

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

attexcel rouge Srwwip oil management insp. log sheet

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	4 E224	<u> </u>	Status of I	Jeterrent S	ystems	Wildlife Observations				
		F	ence	Bank Cover	Noise Cannon	* Harris				
2012		Breach/ Damage (Y/N)!	Location (if V)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecto (Initials	
7/8	(3%) (1:3%)		<u>N</u>	1	Y	N		N	L.	
7 /			N	1		LINER H	N	W		
10	7:00AM 1:00PM	~	$\frac{\sim}{\sim}$	<u> </u>	Ϋ́	<u> </u>	\sim	N	RG	
	J 100 AM	N	N	V	y y	Viv	N	N	RC	
/ 9	930 PM	N	N	4		<u>KILLDER</u>	N	N	典	
7/9	9:00AM	<u> </u>	\sim	Υ	<u> </u>	N	N	2	AT Pr	
	1:00PM	_~_	\mathcal{N}	<u> </u>	y	KILLDEER	\sim	\mathcal{N}	K Co	
	6,09M 139M	<u>N</u>	<u> </u>			Mozwikk Doves	N	X	H	
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^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

⁷ "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspe	E # # # # # # # # # # # # # # # # # # #		Status of I	eterrent S	rstems	Wildlife Observations					
		Fer	***************************************	Bank Cover	Noise Cannon	** ** ***					
Date 2012	Time	Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action Location taken)	Location	Inspector (Initials)		
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^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

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Inspec	3 24222.		Status of I	Deterrent S	ystems	Wildlife Observations 1				
		F	ence	Bank Cover	Noise Cannon					
Date 2012		Breach/ Damage (Y/N) ¹	Location (if V)	ion Oiled Operating	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspecte (Initials		
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Inspec		······	Status of f)eterrent S	ystems	Wildlife I	Observations	······································	
		F	ence	Bank Cover	Noise Cannon	The state of the s		*	Arrest de la company de la com
Date	Time	Breach/ Damage (Y/N)	Location (if Y)	Oiled (V/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. 0r Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken?)	Location	Inspecto (Initials)
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Inspec	`1 86)81 		Status of I	deterrent S	ystems	Wildlife Observations				
			ence	Bank Cover	Noise Cannon					
Date		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken)	Location	Inspector (Initials)	
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FORM SRWWTP 1.02

DATE: 2/26/2001

ghexcel-rouge Srwwtp oil management insp. log sheet

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.







Inspec	Ciian T	Status of Deterrent Systems				12.2.4.1			
Date		Fence		Bank Cover	Noise Cannon	Wildlife Observations			
		Breach/ Dainage (Y/N) [‡]	Location (if Y)	Oiled (V/N)	Operating Properly (V/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken?)	Location	Inspector (Initials)
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		***************************************		Incetion (-			N	λ .	M

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Inspection Status of Deterrent Systems			vstems	Wildlife Observations					
Date 2013		Fence		Bank Cover	Noise Cannon	** FILE ELE			
		Breach/ Dainage (Y/N)	Location (if V)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken) Location	Inspector (Initials)	
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.,29	1.00 PM	N	N	1	7	N	N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
7/30	7:00 7:00	, 1	N	Y	4	1/	N	<u> </u>	19"
***************************************	7. PM	$\frac{N}{N}$	$\frac{N}{N}$	<u>'Y</u>	4	N	The state of the s		
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FORM SRWWTP 1.02

DATE: 2/26/2001

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		S	RWWT	'P DAII	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
Inspection		Any recove	rable oil no t (captured by	skimmers? ¹			
Date 30/2	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
7/,	7:00 3:00 _{PM}	N	N	\mathcal{N}	N	Y	NA	SO
7/1	9:00 AM	Λ/	N	\sim	N	, Y	NA NA	RC
7/2	7:00 AM 7:00 PM	a /	N	N	N	y	NA	爱
7/2	9:00 AM		2 2	\sim	~ ~	Ý	NA	RE
7/3	7.00 _{AM}	N	N	N	N	Y	NA	
7/3	7:00 AM	_	\sim	N	2	<u> </u>	NA	RE
7/4	7:00 AM 7:00 PM	N	N	N	7	4	NA	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time (Y or Location of Uncontained Oil²) Lagoon Lagoon Ponds (or "NA" if not applicable) Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9.00 NA ·00 NA Ν PM 7:00 1:00 N 9:00 N 100 N N 7:00 20 NA 10 N NA AM 100 N PM 00

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained **Primary** Response Action Taken, Comments, and Explanations Secondary Sludge Diked Inspector Date Time Lagoon Lagoon Ponds Lagoon (Y or Location of Uncontained Oil²) (or "NA" if not applicable) (Initials) (Y or N) (Yor N) (Y or N) (Y or N) PM 9.00 AM PM 00 00 AM 9.00 AM NA OO PM 600 AM N N PM N 9:00 AM 1:00 PM ·00 N N AM

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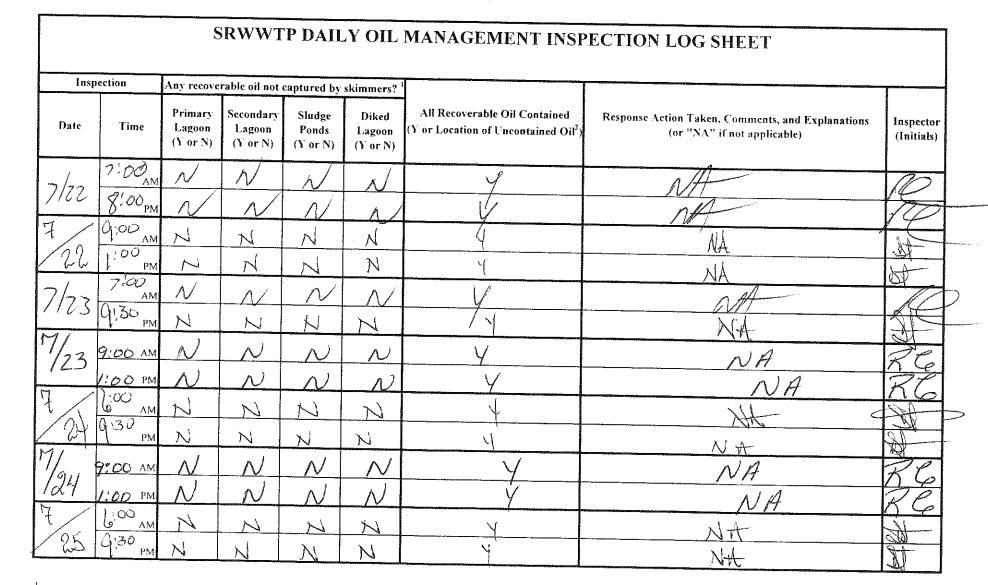
A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

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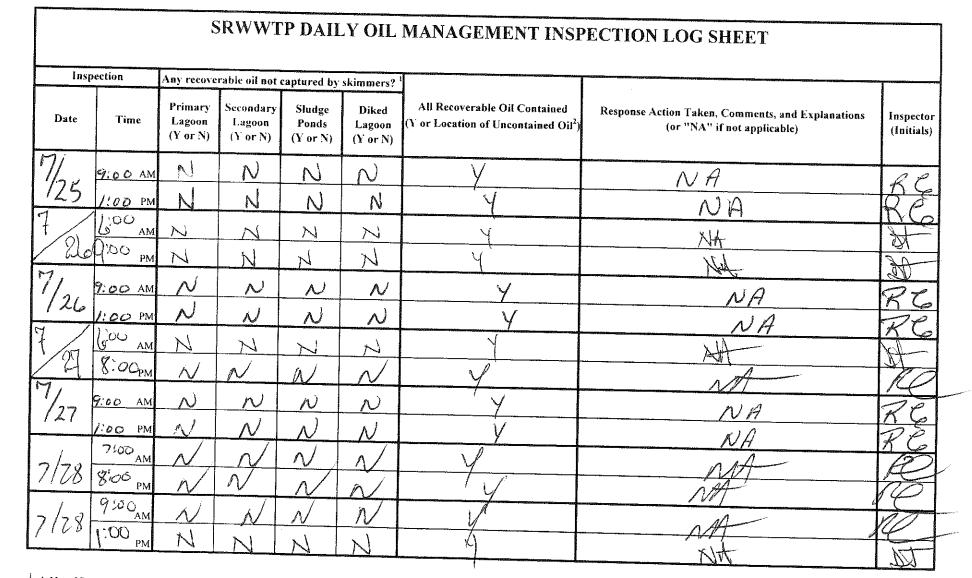
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Inspection		Any recoverable oil not captured by skimmers? 1					The state of the s	
Date 2019-	Time	Primary Lagoon (Y or N)	agoon Lagoon Ponds Lagoon		All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspect (Initial	
7/29 -	7:00 AM 7:00 PM		N	2	N	Y	NA NA	A.
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/30	9.00 1.00 1.00 PM	N	N	N	2	Y	NA NA	
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1/ 4	9.00 AM 00 PM	N	N	N	ν Ν	7	NA NA NA	X

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July 19, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: Report on carcasses found at Schaefer Road Waste Water Treatment Plant

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The enclosed July 11, 2012 reports by our wildlife consultant details the discovery and the basis for identification of an adult Meadow Vole, an adult Eastern Cottontail, a Mallard, and probably immature Eastern Cottontail.

If you are interested in further investigation of the carcasses, please let us know. We will store them until September 14, 2012, after which, space considerations dictate that the carcasses will be disposed.

Please contact me at (313) 323-1260 if you have questions on the information in these reports.

Very truly yours

Lan Trinh

Environmental Engineering

Enclosure

cc: Mr. John Craig, MDEQ US Fish & Wildlife

MEC ENVIRONMENTAL CONSULTING

VIA FEDERAL EXPRESS

July 11, 2012

Mr. James E. Earl Severstal Dearborn LLC 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant - Carcass Report (P. N. 00330)

Dear Jim:

Please find herein the report on the carcass which was found by myself on March 14, 2012 at approximately 14:19. This report was prepared in accordance with the procedures outlined in EPA's letters from Diane Sharrow to Don Windeler, dated December 14, 2001 and August 12, 2004. The carcass is an adult Meadow Vole (*Microtus pennsylvanicus*).

The carcass was found at the top of the southeast bank of the Secondary Lagoon approximately 3 feet north of the north side of the railing, which is north of the stairs to the belt skimmer. The carcass, which looked like a small dark lump, lay on its right side with the head generally pointed east and the posterior pointed west. A relatively long, hairy tail was observed to be curled under the rump. A flesh fly (Sarcophaga sp.) was observed on the carcass when discovered. The carcass, which appeared to be whole and entire and not decomposed, was approximately 3.5 inches in length. The entire surface of the body was a uniform dark black-brown color and glistened in the sunlight. Based on these observations, the carcass was suspected to be oiled. This fact was subsequently confirmed when the carcass was turned over and oil was observed on slag underneath the carcass, as well as by greasy and gray-black residue on a clean glove after inspection of the carcass.

Upon closer examination, the belly of the carcass appeared to be slightly bloated. The carcass was indeed entire, and no cuts, punctures, or wounds were found. The surface of the carcass was somewhat damp, but not wet, and no significant amount of soil or dirt was observed. (A minor amount of dirt was observed on the left side which had faced the ground.) No rigor mortis or odor of decay was present, and no maggots were found. The fur consisted of relatively long, relatively dense hairs. The fur was significantly matted against the skin, and fur on the head and tail appeared to be very unkempt and disheveled. A ridge of matted hair stood perpendicular to the top of the head giving the mammal a crested appearance. Relatively long, silvery or translucent whiskers, many with blackish oil, were noted protruding from the head, which appeared quite narrow in contrast to the rest of the body. The mammal's small forelegs were somewhat extended perpendicular to the body and crossed over its breast. The hind legs were also extended away from the body but were widely splayed. The ears were not visible, presumably buried in matted fur. The eyes were open, very small and black, and did not protrude from the face. The nose appeared to be dark. The mouth was slightly open revealing two dark yellow, slightly convex upper incisors, approximately 1-2 millimeters in length, and, slightly recessed, the bases of two pale lemon yellow lower incisors.

The mammal was initially identified as a neonate or baby Woodchuck based primarily on the black

1003 AMELIA AVENUE

ROYAL OAK, MICHIGAN 48073-2704

VOICE: (248) 585-3800 mecec@comcast.net FAX: (248) 585-8404

coloration of the fur, overall size, and proximity to a burrow entrance. However, upon further investigation under laboratory conditions at MEC Environmental Consulting, it was discovered that the head was too small and narrow for Woodchuck, and that the feet were really not black or flat-bottomed like Woodchuck. Although largely stained black, the feet were actually pinkish-red in color with round digits and short, relatively straight talons unlike the strongly decurved talons of Woodchuck. Finally, it was found that Woodchucks typically do not birth young until mid-May at the earliest. Even with the preceding 2-week period of unseasonably warm, summer-like temperatures, it would be highly unlikely that a Woodchuck would give birth more than a month earlier than normal. The tail length was measured at 4.5 cm. (1.77 in.). In addition, the anterior surface of the upper incisors was examined with a magnifying glass, and found to be smooth and not grooved. These findings, together with the size of the mammal, support an identification of Meadow Vole (*Microtus pennsylvanicus*).

No tracks or other sign were observed near the carcass.

Photographs of the carcass were taken at the time of discovery. The carcass was retrieved by the wildlife consultant around 21:15 on March 14, 2012. The carcass was placed in a plastic bag, sealed, and then packed on ice inside a hard plastic cooler around 21:19. The bagged remains were then transferred by the wildlife consultant to MEC Environmental Consulting; and deposited in a non-self-defrosting freezer under the company's state Scientific Collector's Permit No. 1223 at 22:33.

The fact that rigor mortis was not present together with the fact that no odor of decay was noted suggests that the time of death of the Meadow Vole was several hours before discovery. Although it is possible that decomposition had already begun, as indicated by the slight swelling of the abdomen, and thus rigor mortis had already dissipated, it is likely that that the carcass was not older than approximately 8 hours due to the fact that flesh fly was the only fly species observed and then only one individual. Flesh flies typically visit a carcass within the first two days of death (Tabor, K. L., Succession and Development Studies on Carrion Insects of Forensic Importance, Blacksburg, VA: Virginia Polytechnic University, doctoral dissertation, May 2004). This time of death is especially supported by the sunny conditions and unseasonably warm temperatures (mid 40's to low 60's F.) after sunrise on March 14 which would have been expected to accelerate decomposition. Finally, the carcass could not have been older than 1.5 days because it was not appreciably wet, in stark contrast to the other carcass found that day which was drenched due to rains which fell most of the day on March 12 until 03:00 on March 13. (Although it is true that the subject carcass was oiled and that oil could have repelled some of the rain, given the periods of heavy rains the two preceding days, it would have been reasonable to expect that some oil would have been washed off creating conspicuous fresh staining of the ground around the carcass. Such staining was not observed.) Thus, the Meadow Vole likely died sometime during the morning hours on March 14. The carcass was not predated or scavenged in any way, as indicated by the absence of any puncture wounds or missing body parts.

The oil of the mammal's fur and absence of any significant amount of soil indicates that the mammal was likely swimming in and/or foraging in vegetation at the water's edge of the Secondary Lagoon prior to its death. The mammal contacted some oil either on the water surface of the Secondary Lagoon or from the stems or roots of vegetation at the water's edge. Meadow Voles frequently are found near shorelines of rivers, ponds, and lakes, and are good swimmers (Burt, W. H., loc cit., p. 192). The orientation of the carcass essentially perpendicular to the southeast bank with head facing east, the position of the mammal on its side, and its location just over the crest of the bank suggest

that the Meadow Vole expired upon reaching the top of the bank. Once oiled, the mammal likely found it more difficult to forage and feed effectively. The energetic requirements of Meadow Vole are quite high as evidenced in the fact that the mammal consumes its weight in foodstuffs, generally roots and stems of vegetation, within a 24 hour period. In addition, the oiled condition of its fur and skin likely prevented adequate thermoregulation. Both of these factors likely resulted in death by hypothermia. Meadow Voles often feed at night, and temperatures on March 14 dropped approximately 10-12 degrees F. from midnight to 7:00 am. Meadow Voles generally dislike and avoid bare areas of ground devoid of vegetation, yet the carcass was found in such an area lending further credence to the hypothesis that death was caused by hypothermia. No necropsy of the carcass was performed.

Meadow Voles are very prolific, breeding throughout the year (Burt, W.H., *Mammals of the Great Lakes Region*, Ann Arbor, MI: University of Michigan Press, 1957, p. 126). Indeed, the species is believed to have the highest reproductive rate of any mammal in the world (Meadow Vole and Woodland Vole, Connecticut Wildlife, February 2011,

http://wildlifeofct.com/meadow%20vole%20and%20woodland%20vole.html). Breeding territories of Meadow Voles are typically 0.1 to 1.0 acres. Because of these facts and their dietary preference for vegetation, Meadow Voles are often considered a pest species in some residential gardens and many agricultural areas, particularly orchards where the mammals often girdle trees. The typical life-span of an adult Meadow Vole in the wild is 1-3 years (Burt, W.H., and R. P. Grossenheider, A Field Guide to the Mammals, Boston, MA: Houghton Mifflin Co., 1964, p. 192). However, because Meadow Voles are so frequently preyed upon by hawks, owls, crows, herons, weasels, skunks, and snakes, many individuals do not survive a single calendar year (Golder Associates Ltd, Draft Terrestrial Environmental Technical Support Document for the Deep Geologic Repository for Ontario Power Generation's Low and Intermediate Waste Level, April 201, p. 128).

A Meadow Vole carcass was discovered at the SRWWTP on March 21, 2005 on the mid-slope of the southeast bank of the Primary Lagoon which appeared to have died of natural causes. In addition a partial, probable Meadow Vole carcass was discovered at the SRWWTP on June 9, 2009 at the top of the southwest bank of the Secondary Lagoon near the base of the utility pole. The latter mammal was likely killed by the facility's lawnmower. Neither carcass was oiled. Evidence or sign of Meadow Voles, viz., narrow tunnels or runways on the surface of the ground, have been observed regularly in the spring at the SRWWTP for years. The species presumably has bred at the SRWWTP since at least 2000 when wildlife surveys were first initiated. However, it should be emphasized that no Meadow Vole has ever been observed in, on, or immediately adjacent to any of the SRWWTP treatment ponds and lagoons during wildlife surveys conducted at the facility.

If you have any questions regarding this report, please call me at (248) 585-3800. Thank you again for selecting MEC Environmental Consulting for your wildlife management consulting needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael Carlson

Principal

enclosures (photographs)







SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson March 14, 2012 - afternoon (film)

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#1: Ground at top of southeast bank of Secondary Lagoon, approximately 30 feet north of belt skimmer tank. Note Meadow Vole carcass, as found (left side up), matted & shiny fur. Note Flesh Fly at lower left of carcass.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson March 14, 2012 - afternoon (film)

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#2: Ground at top of southeast bank of Secondary Lagoon, approximately 30 feet north of belt skimmer tank. Note Meadow Vole carcass turned over (right side up), oiled and matted fur.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson March 14, 2012 - afternoon (digital)

#3: Closeup of dorsal posterior end of Meadow Vole carcass. Note relatively long, matted hairy tail, pinkish red feet, rounded toes with only slightly decurved talons, and heavily oiled and matted fur

MEC ENVIRONMENTAL CONSULTING

VIA FEDERAL EXPRESS

July 11, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant - Carcass Report

(P. N. 00330)

Dear Jim:

Please find herein the report on the second carcass which was found by myself on March 14, 2012. This report was prepared in accordance with the procedures outlined in EPA's letters from Diane Sharrow to Don Windeler, dated December 14, 2001 and August 12, 2004. The carcass is an adult Eastern Cottontail (*Sylvilagus floridanus*).

The carcass was found at 13:36 tangled in excess netting at the top of the east central bank of the East Sludge Pond approximately 2 feet east of the north end of the concrete and steel bumper at the former loading area. The carcass generally lay on its right side with the anterior end generally pointed east and the posterior end pointed west. The ventral side of the carcass faced north, and the dorsal side faced south. The carcass appeared to be whole and entire. The fur, which was extremely wet, matted and unkempt, especially at the neck, appeared to be flecked with gray-brown and chestnut but overall quite pale. At least one adult Greenbottle Fly (*Lucilia sericata*), but no maggots, was observed on the carcass, and only a very slight odor of decay was noted. Multiple strands of netting were wrapped around both hind feet, the left front foot and leg as well as the neck. The head and right foreleg was mostly obscured by several layers of excess netting. Netting around the hind feet appeared to be slightly taut. The carcass did not appear to be oiled. No staining was noted on the left side.

Photographs were taken of the carcass as found. The carcass was approximately 12.6 inches in length, including the head and neck. A partially desiccated, but open, rather large dark left eye and two relatively long, erect, rabbit-like ears were noted through the netting. The carcass did not appear to be bloated in anyway. The forequarters appeared to be arched slightly, with the head and hindquarters drooped, such that the nose and white tail tip were both tangent to the same plane approximately one inch below (north of) and parallel to the belly. The rump appeared to be flat and against a rather taut section of netting. All four legs appeared to dangle from the mammal's underside, especially the mammal's long hind legs. Only the left hind leg appeared to be slightly flexed: the foot being at approximately 100 degrees to the leg, and the stiffle (knee) slightly bent at the lowest edge of the belly. The muzzle and tail tip both pointed northeast. The fur at the nape immediately posterior of the ears was chestnut in color.

Due to time constraints imposed by the protocol of the wildlife survey and the fact that the carcass significantly entwined in the netting, the wildlife consultant informed the SRWWTP operator on-

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duty that he would return the following morning to extricate and recover the carcass.

The wildlife consultant returned to the SRWWTP around 11:30 on March 15 to recover the carcass, and learned from the operator on duty that the Severstal grounds crew had started to remove the carcass but had left on an errand. The wildlife consultant found that the hind legs and feet had been removed from the netting. Five to six Greenbottle fly adults were observed on and around the carcass, although no eggs were noted. (While these could have been missed in the field, digital photographs of the carcass, specifically the eyes and mouth-typical sites for fly eggs, were magnified 10-12 times and reviewed at MEC. No eggs were noted.) Three strands of netting were wrapped around the right forefoot, which was cinched against the right side of the head. The skin at the top of the right forefoot appeared to be broken and raw. At least one strand of netting was completely around the neck of the mammal. The entire right side of the head and muzzle were very darkly stained. Upon closer examination, this staining was dried blood. The strand of netting around the neck of the mammal was found to lay in a cut approximately 1-3 mm deep on the right side of the lower neck near the throat. The wildlife consultant completed the removal of the carcass from the netting by cutting the excess netting in at least two places.

The carcass showed no sign of rigor mortis or oil. With exception of blood staining and slight soiling on, the fur of the right side of the mammal appeared clean. Fur on the right hindquarters appeared quite rumpled. The right eye was open and whole; however, the area around the eye appeared to be reddish-purple. No photographs were taken of the carcass recovery operation, which was completed at noon on March 15, 2012. The carcass was bagged and placed on ice inside a hard plastic cooler at 12:04. The bagged remains were then subsequently transferred by the wildlife consultant to MEC Environmental Consulting. Both sides of the carcass were photographed, and then the carcass was placed in a black garbage bag and deposited in a non-self-defrosting freezer at 13:30 under the company's Scientific Collector's Permit No. 1223 issued by the Michigan Department of Natural Resources. No necropsy was performed.

Based on the presence of relatively long ears and long hind legs, the chestnut patch on the nape, and the very short white tail, the carcass was identified as an Eastern Cottontail (*Sylvilagus floridanus*). Based on the relatively large size of the carcass, the rabbit was likely an adult.

The mammal became caught in netting possibly early in the morning or the night of March 12. Eastern Cottontails are nocturnal, and they are most active when visibility is limited, e.g., on rainy or foggy nights (Godin, Alfred J., *Wild Mammals of New England*, Baltimore, MD: John Hopkins University Press, 1977). Skies were clear and the moon was mostly full on the nights of March 9 through 11; thus, it is assumed that rabbit activity was minimal over this period. Moreover, because of the fact that the carcass was soaking wet and matted when found, the carcass was likely subjected to considerable rain. (The matting of fur due to moisture caused the paler subsurface fur to be more apparent, giving the mammal the blanched appearance when found.) Rain fell throughout the morning (07:53-11:53) and night (22:42-23:53) of March 12, and the early morning hours (00:00-02:53) of March 13. The fact that the blood on the right side of the head of the mammal was dry suggests that the mammal died either before or early in the period of rains, specifically early in the morning of March 12 or the evening of March 12. This observation seems to corroborate entanglement during the pre-dawn hours of March 12, with death occurring hours later that morning.

The mammal likely became entangled in excess netting which had either not been zip or cable-tied or had come loose from the cable tie. In attempting to free itself, the rabbit became more entangled. Given the degree of entanglement observed, the rumpled right hindquarters, bruising around the right

eye, scraped right forefoot, and cuts in the right side of the throat from the netting, the mammal struggled considerably trying to free itself. Indeed, it struggled to the point of its death. Based on the drooped appearance of the head and tail and dangling forelegs and hind legs, the mammal likely died from a combination of blood loss from the cuts in the throat and trauma. While possible as a contributing factor to death, hypothermia seems to be ruled out on the basis of the mammal's open eyes.

A presumed adult Eastern Cottontail carcass was found entangled in loose excess netting on the top of the south bank of the East Sludge Pond on April 21, 2011 Given two similar deaths within less than a year, the wildlife consultant recommended to the SRWWTP lead operator on March 15 that additional lengths of excess netting around the East Sludge Pond be tightly rolled and zip cable tied to minimize potential entanglement by Eastern Cottontails, and that these rolls of excess netting and cable ties around them be regularly checked and maintained.

In addition to the subject and aforementioned carcasses, four other Eastern Cottontail carcasses or remains have previously been found at the SRWWTP. On April 21, 2011 a fresh carcass of a neonate was found near a nest at the south end of the plain west of the Primary Lagoon. A fresh carcass of a young Eastern Cottontail was found on the east bank of the Secondary Lagoon on September 3, 2009. On May 23, 2008 the partial skull with back molars of a possible Eastern Cottontail was found at the top of the north bank of the Diked Lagoon, approximately 70 feet east of northwest corner. Partial viscera and several hair clumps of a possible Eastern Cottontail were found south of the top of the south bank of the West Sludge Pond. All four rabbits likely died of natural causes- the latter two being victims of predators. None of the five carcasses and/or remains previously found were oiled.

Eastern Cottontails have been regularly observed at the SRWWTP since 2000 when wildlife surveys were first initiated, and the species is known to breed at the facility. Four Eastern Cottontails were observed during the March 14, 2012 wildlife survey. In addition, sign of Eastern Cottontail in the form of scats and tracks have been found in many of the wildlife surveys, including the one conducted on March 14, 2012.

If you have any questions regarding this report, please call me at (248) 585-3800. Thank you again for selecting MEC Environmental Consulting for your wildlife management consulting needs.

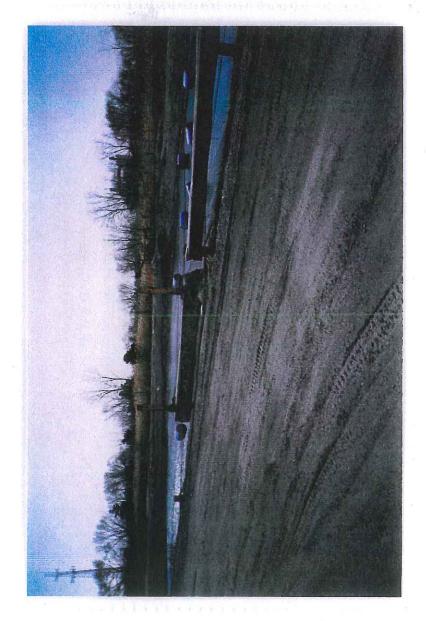
Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael Carlson Principal

enclosures (photographs)







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (film) March 14, 2012 - afternoon #1; SRWWTP entrance drive, road east of East Sludge Pond, and east side of East Sludge Pond, looking southwest from south of south clarifier. Note two vertical posts left of center and guard rail mark former loading pad.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (film) March 14, 2012 - afternoon

#2: Road east of East Sludge Pond, East Sludge Pond, & concrete/steel bumper at former loading pad, looking west-southwest. Note white ellipse immediately left of dry grass tuft at center is adult Eastern Cottontail carcass

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (film) March 14, 2012 - afternoon

#3: Ground at top of east central bank of East Sludge Pond opposite north end of former loading pad, looking down and west. Note Eastern Cottontail carcass, as found, entangled in excess netting.







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (film) March 14, 2012 - afternoon #4: Eastern Cottontail carcass, as found, looking down and west. Note drenched, matted, and pale-looking fur, and strands of netting around feet and neck.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (film) March 14, 2012 - afternoon

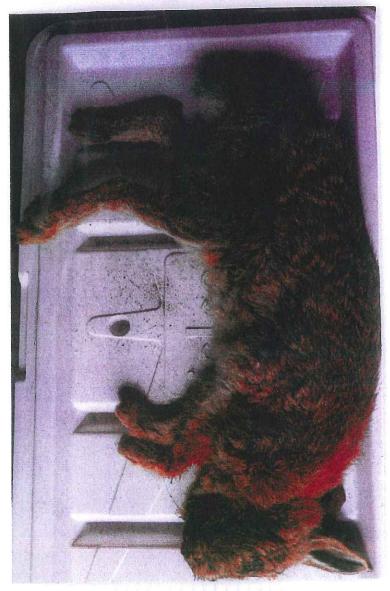
#5: Eastern Cottontail carcass, as found, and inch ruler for sizing, looking down and south. Note chestnut nape, legs that appear dangling, ruffled fur at side of neck, and Greenbottle Fly near left foreleg.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (film) March 14, 2012 - afternoon

#6: Close-up of head of Eastern Cottontail carcass, as found, looking down and south. Note netting wrapped tightly around neck, open eye, long rabbit-like ears, and Greenbottle Fly on chestnut nape.







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (digital) March 15, 2012 - afternoon

#7: Left side of Eastern Cottontail carcass looking down at MEC Environmental Consulting. Note open eye, more normal coloration of fur after carcass had dried out in intervening 24 hours after discovery.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (digital) March 15, 2012 - afternoon

#8: Right side of Eastern Cottontail carcass looking down at MEC Environmental Consulting. Note stained head and rumpled, slightly soiled hip and rump.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson (digital) March 15, 2012 - afternoon

#9: Close-up of right side of head of Eastern Cottontail carcass. Note bloodied fur, bruising around open eye, and deep cuts in throat from netting wrapped around neck.

MEC ENVIRONMENTAL CONSULTING

July 11, 2012

Mr. James E. Earl Severstal Dearborn LLC 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant - Carcass Report (P. N. 00330)

VIA FEDERAL EXPRESS

Dear Jim:

Please find herein the report on the avian remains which was found by myself on April 9, 2012 at approximately 17:30. This report was prepared in accordance with the procedures outlined in EPA's letters from Diane Sharrow, dated December 14, 2001 and August 12, 2004. The remains are of a probable Mallard (*Anas platyrhynchos*).

The remains were found on and in slag-covered ground at the middle slope amidst a relatively dense stand of Catnip (*Nepeta cataria*) on the east central bank of the Primary Lagoon, approximately 75 feet north of the TVT bridge and opposite a point approximately 3 feet south of the Secondary Lagoon cannon. The remains consisted of a clump of feathers with several bones, and several bones and at least a hundred feathers, including several primaries, within 5 to 20 inches mostly west-northwest of this larger clump. A pelvic girdle (without the caudal vertebrae) was also found on the lower slope of the east central bank approximately 8 feet west-southwest of the initial remains and approximately 5 feet from the water's edge.

Recovery of the remains was initiated at approximately 10:20 on April 10, 2012 because there was insufficient time and daylight on April 9 for recovery. A femur was found together with likely contour feathers, approximately 4 inches northwest of the main clump of approximately 100-200 feathers which appeared to be mostly back and greater covert feathers with several remiges. The femur, which measured 49 millimeters (mm) in length, was virtually skeletal with what appeared to be one residual tendon protruding from both the proximal and distal ends, and a small feather attached to the distal end. Other bones found include a humerus (90 mm), carpometacarpus (54 mm), radius (71 mm), ulna (75 mm), scapula (80 mm) with attached coracoid (51 mm), vertebral rib, one side of the lower jawbone (88 mm), and tibiotarsus (83 mm). The latter three bones all from very different parts of the bird were found next to each other. The wing bones (humerus, radius, ulna, and carpometacarpus) appeared to be heavily stained a dark yellowish-brown with dark gray to black specks and blotches. The rest of the bones, including the femur, were generally pale gray in color with medium to dark gray to black specks and/or areas of staining. Staining appeared to be greater at the proximal end of the humerus, radius, and carpometacarpus, and greater at the distal end of the radius, femur, and tibiotarsus. The right ischium of the pelvic girdle was broken and missing but it was found approximately 8 feet away.

Most of the feathers and bones were found on and against the ground. A number of smaller bones and feathers were found in between small pieces of slag and were mostly covered with 1-3 millimeters of soil. The primaries found, which had long calami, approximately 1.5 inches in length, were mostly dark brown to black, which appeared to be staining. All the feathers were extremely weathered and brittle, and many broke or fell apart upon retrieval. Virtually all of the feathers appeared very ragged, and were missing the margins of both the posterior and anterior vanes. The calami and many of the rachides were generally

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whitish and appeared to be quite powdery. The primaries were 6.5 to 7.0 inches in length. The ventral side of at least one primary exhibited a conspicuous glossy area along both sides of the rachis which was clearly tegmen. Feathers were found both with dorsal and ventral sides against the ground.

No skull, flesh, or organs were found. No odor of decay was noted. No petroleum oil odor was noted.

Based on the long calami as well as the length of primaries and the conspicuous tegmen on at least one primary, the remains were identified as a duck. Based on the brown coloration of the primaries, the remains were tentatively identified as a Mallard because of the fact that this species is most common. In order to verify the identification, the wildlife specialist took the larger bones to the Bird Division of the Museum of Zoology at the University of Michigan in Ann Arbor on May 25, 2012. There the size and shape of several bones, notably the tibiotarsus, the lower jawbone, the pelvic girdle, the vertebral rib, and the carpometatarsus were compared with those of Mallard as well as other waterfowl of similar size from the skeletal collection of the Bird Division. A near-perfect match was found with a female Mallard with the exception that the length of the lower jawbone of the specimen hen Mallard was approximately 2-3 mm longer. However, upon close examination the distal end of the bone found appears to have been broken, quite possibly at the time it was separated from the opposite side of the lower jawbone.

(It should be noted that the bird was likely a wild Mallard as opposed to a domesticated one because the feathers appeared to be dark and not pale or mottled with white, as one would expect in a domestic Mallard hybrid. Domesticated ducks, including Mallards, are known to occur in the Dearborn area, and such domestic birds are not considered migratory birds under the Migratory Bird Treaty Act.)

Given the skeletal condition of the remains, the extremely degraded condition of the feathers, and that fact that many of the bones and some feathers were partially buried in slag and dirt, it would appear that the remains are at least several years old. However, it should be emphasized that nutrients and bacteria to facilitate biological degradation of sludge are added on a regular basis to the Primary Lagoon at the TVT moored on the east side of the lagoon. Thus, the water and shoreline of the Primary Lagoon constitute an environment rich both in nutrients and bacteria. Decomposition of feathers would likely occur rapidly in such an environment, possibly in as little as several months (Edward H. Burtt, Jr., Department of Zoology, Ohio Wesleyan University, personal communication). In addition, the portion of the east bank where the remains were found was affected for several months by Primary Lagoon dredging operations beginning in the late summer of 2011 and continuing into the late fall of the same year. These operations on the east central bank of the Primary Lagoon included clearing of two paths through the vegetation to the water's edge, dredging equipment storage (e.g., small boat, marker buoys, etc.), placement and repositioning of piping to convey dredged material from the Primary Lagoon to the Diked Lagoon, temporary placement of the TVT bridge, and foot traffic by dredge operators. These dredging activities likely resulted on the unintentional disturbance of the carcass remains, moving portions of the remains as indicated by the fact that the pelvic girdle was broken and missing the caudal vertebrae, as well as the fact that the remains were distributed over a relatively large area- the pelvic girdle being approximately 8 feet away from most of the other remains, including the ischium, which is part of the pelvic girdle! Moreover, these operations, several being repeated regularly over a span of several months, likely resulted in the pressing many of the bones into the ground and between small pieces of slag. Finally, and most significantly, the observed staining of the remains may very possibly have been caused by the dredging activities identified, especially position of dredging equipment and the TVT bridge, which likely were contaminated with oily sludge from the lagoon. Thus, the possibility that the duck was not exposed to oil at the time of its death and that staining was caused subsequently by dredging activities cannot be ruled

In this regard, it should be emphasized that a Mallard drake carcass was found in the water at the south

end of the Primary Lagoon on February 16, 2007 and a Mallard hen carcass on the west bank of the Primary Lagoon on February 21, 2007. Based on position and appearance, both birds were suspected to have died from natural causes, possibly duck viral enteritis (DVE) or duck plague. In addition to DVE, Mallards are susceptible to other diseases such as avian cholera, avian influenza, aspergillosis, blood parasites (genera *Haemoproteus*, *Leucocytozoon*, and *Plasmodium*), and coccidiosis ((Drilling, N., et al., "Mallard," in *The Birds of North America Online*, No. 658, Ithaca, NY: Cornell Laboratory of Ornithology, 2002, Section 11). In addition, pesticides and heavy metals as well as toxins from the bacterium *Clostridium botulinum* (avian botulism) and blue-green algae (*Anabaena flosaquae*) can cause morbidity and mortality in Mallards (*Ibid.*). Therefore, it is possible that the subject Mallard hen also died from an avian disease or other natural cause. (The distribution of remains over such a relatively large area suggests that the bird was not killed by a predator. A hawk would pluck the bird and likely not dissect and eat the bird at the facility, thus leaving bones. A mammalian predator, such as a Red Fox, would likely take the entire bird away to a burrow or cache it. Missing bones, however, suggest the possibility that the carcass was scavenged.). However, in this case, it is impossible to ascertain the cause of death. The mean life expectancy of an adult Mallard is 1.8 years (*Ibid.*).

It is likely that the duck died either in the winter of 2010-2011 or in the spring of 2011 several months before dredging activity began at the Primary Lagoon. The latter timeframe is more likely given the fact that a carcass was not found during the March wildlife survey and that vegetation was dense on the east bank of the Primary Lagoon by the time of the April and May wildlife surveys. Vegetation remained dense on the east central bank of the Primary Lagoon for the remainder of 2011 and into 2012.

The remains are the third set of Mallard remains found at the SRWWTP- all at the Primary Lagoon. Mallard has regularly been recorded at the SRWWTP during the wildlife surveys since 2000. The species has occasionally roosted, and may have nested, in the bermed area. Mallards have also been regularly observed in the nearby Rouge River.

After the remains were photographed, examined, and retrieved, they was placed and sealed in a plastic bag at approximately 11:18 on April 10, 2012, and packed on ice inside a hard plastic cooler at approximately 11:23. The pelvic girdle was retrieved at approximately 11:56 and placed on ice inside the hard plastic cooler at 12:01. The remains were then transported by the wildlife specialist for deposition in a non-self-defrosting freezer at MEC Environmental Consulting under the company's federal and state salvage permits. The bagged carcass was placed in the freezer around 13:20 on April 10, 2012.

If you have any questions regarding this report, please call me at (248) 585-3800. Thank you again for selecting MEC Environmental Consulting for your wildlife management consulting needs.

Sincerely yours,

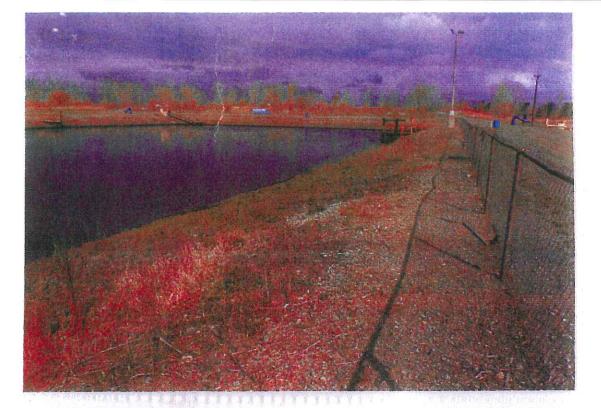
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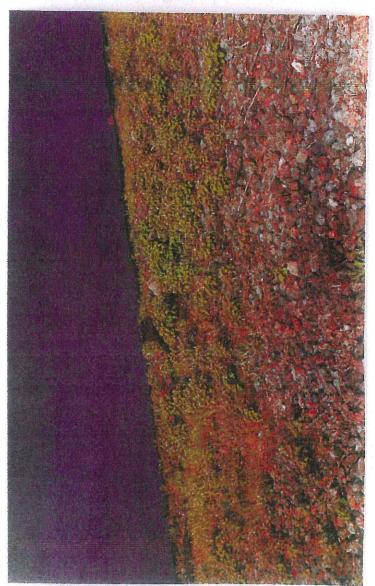
Michael Carlson Principal

enclosures (photographs)

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SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital) #1: East bank of the Prinnary Lagoon, looking north from top of bank opposite TVT bridge. Note Mallard remains found in center of broad area of green vegetation. Note hoist in distance and Prinnary Lagoon fence.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital)

#2: East bank of the Primary Lagoon, looking west from top of bank approximately 75 feet north of the TVT bridge. Note Mallard remains found on the mid- and lower slopes (green area) here.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital)

#3: Ground of middle slope of east bank of Primary Lagoon, looking down and southeast. Note Mallard remains, specifically feathers protruding from ground and inch ruler for sizing. Note extreme weathering of feathers.







SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital) #4: Ground of middle slope of east bank of Primary Lagoon, looking down and east. Note Mallard remains, specifically distal end of humerus profruding from slag chunks & clump of the continue footbase with inch ruler for sixing.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 9, 2012 - afternoon (film)

#5: Ground of middle slope of east bank of Primary Lagoon, looking down and west. Note Mallard remains, specifically femur on slag with inch ruler for sizing. Note moderate dark gray staining.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital)

#6: Ground of middle slope of east bank of Primary Lagoon, looking down and southeast from approximately 10 inches northwest of Photo #3. Note Mallard remains, specifically bones and feathers and inch ruler for sizing.







SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital) #7: Close-up of Mallard bones in Photo #6, specifically, tibiotarsus (top), vertebral rib (middle), and lower jawbone (bottom) with inch ruler for sizing. Note moderate gray staining

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital)

#8: Mallard remains from east central bank of Primary Lagoon, specifically coracoid and scapula and inch ruler for sizing. Note dark gray staining. Background is backside of clipboard.

SEVERSTAL DEARBORN, LLC SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 10, 2012 - morning (digital)

#9: Ground of lower slope of east bank of Primary Lagoon, looking down and north from approximately 60 feet north of TVT bridge. Note Mallard remains, specifically pelvic girdle. Note broken and missing ischium.

MEC ENVIRONMENTAL CONSULTING

VIA FEDERAL EXPRESS

July 11, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant - Carcass Report

(P. N. 00330)

Dear Jim:

Please find herein the report on the second wildlife remains which was found by myself on April 9, 2012. This report was prepared in accordance with the procedures outlined in EPA's letters from Diane Sharrow to Don Windeler, dated December 14, 2001 and August 12, 2004. The carcass is an Eastern Cottontail (*Sylvilagus floridanus*), probably an immature.

The carcass was found at 13:53 on the north shoulder of the road south of the East Sludge Pond approximately 6 feet west of the southeast corner of the East Sludge Pond and approximately 6 inches from excess netting lying on top the southeast bank of the East Sludge Pond. The excess netting here was ripped in several places near the edge. The carcass, which appeared old, weathered, and rather flattened, generally lay on its ventral side with the anterior end generally pointed northeast and the posterior end generally pointed southwest. The head was missing from the carcass, and no viscera or organs appeared to be present. The fur, and indeed the entire carcass, appeared to be very unkempt and extremely disheveled. Much of the fur was loose, and yet it appeared to not be soiled or full of dirt. Fur on both hind legs and feet appeared to be matted. The right hind leg protruded from the carcass pointing southeast and the right hind foot was positioned at a 90° angle to the south. The left hind leg appeared to project slightly from the carcass pointing southwest, with the left foot parallel to the leg and pointed northeast. A section of 3-4 skeletal white cervical vertebrae was conspicuous to the right of the right hind leg and pointed southeast. A semicircle of chestnut fur partially ringed the vertebrae. Other skeletal bones were apparent adjacent to the vertebrae and immediately east and north of the distal end of the left hind foot. Chestnut fur was also apparent immediately southeast of the left hind leg. No odor of decay was noted. No staining or evidence of oil was noted. Finally, no insect activity was noted on, below, or around the carcass.

Photographs were taken of the carcass as found. Due to time constraints imposed by the protocol of the wildlife survey, the wildlife specialist informed the SRWWTP operator on-duty that he would return the following morning to recover the carcass.

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The wildlife specialist returned to the SRWWTP around 11:00 on April 10 to recover the carcass. The carcass was turned over to reveal the ventral side, and then photographed and examined. Ventrally the carcass resembled an agglomeration of matted fur with few recognizable features. No pelvis or rib cage was noted. Both forelegs and feet were missing. The right hind femur was fractured, and the broken end rather sharply pointed. The balance of the femur was not located, and only fur seemed to holding the right leg in place. (Indeed, upon recovery of the carcass, the left hind leg fell away from the carcass.)

The wildlife specialist recovered the carcass at 11:36 on April 10, 2012. The carcass was placed in a clear, gallon-size freezer bag and placed on ice inside a hard plastic cooler at 11:39. The bagged remains were then subsequently transferred by the wildlife specialist to MEC Environmental Consulting. The carcass was deposited in a non-self-defrosting freezer at approximately 13:05 under the company's Scientific Collector's Permit No. 1223 issued by the Michigan Department of Natural Resources. No necropsy was performed.

Based on the shape of the feet, coloration of the fur, and the chestnut semicircle around the cervical vertebrae, the carcass was identified as an Eastern Cottontail (*Sylvilagus floridanus*). Based on the relatively small size of the carcass, the rabbit was likely an young rabbit, probably born last year.

Based on the fact that the carcass was mostly fur and bones, and that there was no observed insect activity in, on, or around it, the carcass likely was at least 5-6 months old, especially considering that decomposition likely would have been retarded over the winter months. This hypothesis seems to be corroborated by the relatively small size of the mammal, which suggests that the rabbit was born in late summer or fall of 2011. The mammal likely died in December 2011 or January 2012, the coldest months.

The carcass was likely overlooked by SRWWTP personnel and the wildlife specialist during the March wildlife survey or dismissed as a shop rag or tattered work glove, especially given its flattened and disheveled appearance.

The several tears in the excess netting atop the southeast bank of the East Sludge Pond approximately 6 inches from the carcass suggest that the rabbit may have become entangled in the excess netting. Two other Eastern Cottontails have been found entangled in excess netting at the East Sludge Pond recently. On March 14, 2012 an adult Eastern Cottontail carcass was discovered tangled in excess netting at the top of the east central bank of the East Sludge Pond just north of the former loading area. On April 21, 2011 a presumed adult carcass if the same species was also found entangled in loose excess netting on the top of the south bank of the East Sludge Pond, approximately 15-20 feet west-northwest of the subject carcass.

While caught in the netting, the mammal likely was killed by a predator, probably a Red Fox. (Red Fox shows a strong preference for preying on Eastern Cottontail.). This hypothesis is supported by the broken right femur, which likely would not have resulted from the rabbit's struggle to extricate itself from the netting, as well as the tears in the netting, which also likely were not have been caused by the young rabbit's struggle alone. Additionally, the hypothesis is

supported by the very disheveled and matted appearance of the carcass. Finally, the hypothesis of death by a predator is supported by the missing head, as well as the missing fore legs, rib cage and pelvis of the mammal. Because of its small stomach, Red Fox frequently carries off portions of its prey that it cannot eat and typically buries them in a cache for future use.

On the other hand, it is possible that the rabbit, having disentangled itself from the netting, died subsequently from the struggle or exposure, and the carcass was scavenged by a predator, such as a Red Fox. However, if this were the case it seems likely that the Red Fox or other scavenger would have carried the entire carcass away, especially given the relatively small size of the rabbit. Furthermore, based on the other Eastern Cottontail carcasses entangled in excess netting, the mammals tend to become more entangled the more they struggle. Thus, it seems unlikely that the subject rabbit was able to extricate itself from the excess netting. Therefore, it reasonable to conclude that the Eastern Cottontail was killed by a predator, and thus died from natural causes.

Six other Eastern Cottontail carcasses or remains have previously been found at the SRWWTP, including the two carcasses mentioned earlier. On April 21, 2011 a fresh carcass of a neonate was found near a nest at the south end of the plain west of the Primary Lagoon. A young Eastern Cottontail carcass was found on the east bank of the Secondary Lagoon on September 3, 2009. On May 23, 2008 the partial skull with back molars of a possible Eastern Cottontail was found at the top of the north bank of the Diked Lagoon, approximately 70 feet east of the northwest corner. All of these mammals appeared to die of natural causes. Finally, possible Eastern Cottontail remains were found on June 12, 2002.

Eastern Cottontails have been regularly observed at the SRWWTP since 2000 when wildlife surveys were first initiated. Moreover, sign of Eastern Cottontail in the form of scats and tracks have been found in many of the wildlife surveys.

If you have any questions regarding this report, please call me at (248) 585-3800. Thank you again for selecting MEC Environmental Consulting for your wildlife management consulting needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael Carlson Principal

enclosures (photographs)







SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 09, 2012 - afternoon (film) #1: Southeast corner of East Sludge Pond showing dirt road, netting and control gate. Eastern Cottontail carcass is at edge of net and between short yellow posts.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 09, 2012 - afternoon (film)

#2: East Sludge Pond looking north from middle of road south of lagoon opposite southeast corner of lagoon. Note light brown spot at center in front of green grass tuft is Eastern Cottontail carcass.

SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 09, 2012 - afternoon (film)

#3: Ground at north shoulder of the road south of the East Sludge Pond approximately 6 feet west of the southeast corner of the East Sludge Pond. Note Eastern Cottontail carcass as found and inch ruler for sizing.





SEVERSTAL DEARBORN, LLC. SCHAEFER ROAD WWTP

Photographed by Michael Carlson April 09, 2012 - afternoon (film)

#4: Close-up of Eastern Cottontail carcass as found and inch ruler for sizing. Note disheveled appearance, matted & loose fur, skeletal cervical vertebrae & adjacent ring of chestnut, small hind feet, and other bones.

#5: Eastern Cottontail carcass turned over. Note extremely disheveled appearance. Note broken femur below and left of the center of bright

white fur at center of photo.

Photographed by Michael Carlson April 10, 2012 - morning (digital)

SCHAEFER ROAD WWTP SEVERSTAL DEARBORN, LLC.



MID087 738431

June 15, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: May 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The May monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the May wildlife survey report by MEC Environmental Consulting, and the operators' inspection logs. Two carcasses were found: a European Starling at the top of the northeast bank of the Primary Lagoon, and a Mallard on the lower to middle slopes of the east bank of the Primary Lagoon. Both set of the remains appeared to be oiled. These carcasses will be discussed in a separate report.

Correction to the April 2012 report, there were four loads totaling 12,000 gallons of oil-water mixture hauled off site, we previously reported "No oil-water mixture was hauled off-site". Copies of April manifests are attached in Appendix C.

Please contact me at (313) 845-3217 if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDNRE

US Fish & Wildlife, Ann Arbor Office

Severstal Dearborn, LLC

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Dearborn, MI 48120-1699

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CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR May 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Wildlife Survey	Appendix A
Inspection Summary and Report Sheets	Appendix B
Oil Hauling Manifests	Appendix C

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period May 1 through May 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

A Wildlife Survey was conducted on May 15, 2012 and a copy of the report is provided in Appendix A. Inspection reports show seasonal activities observed in the general area, and no significant issues at the site were identified. Except, two carcasses were found: an European Starling at the top of the northeast bank of the Primary Lagoon, and a Mallard on the lower to middle slopes of the east bank of the Primary Lagoon. Both set of the remains appeared to be oiled. These carcasses will be discussed in a separate report.

The summary of daily inspection findings is provided in Appendix B. Copies of the inspection reports are also provided in Appendix B. No repetitive use of the treatment ponds and lagoons was observed in the May inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in May. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.3 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in May 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In May, there were observations of killdeers overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix B.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of May 2012.

Correction to the April 2012 report, there were four loads totaling 12,000 gallons of oil-water mixture hauled off site, we previously reported "No oil-water mixture was hauled off-site". Copies of April manifests are attached in Appendix C.

APPENDIX A

Wildlife Survey

MEC ENVIRONMENTAL CONSULTING

VIA FEDERAL EXPRESS

June 13, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant: 2012 Wildlife Survey #3

(P. N. 00330)

Dear Jim:

I am very pleased to present the enclosed letter report for the subject project in partial fulfillment of your Purchase Order No. 592351. This survey constitutes the monthly bird survey in accordance with your Continuing Emergency Measures (CEM) Workplan in response to EPA Administrative Order Docket No. R7003-5-00-001.

The May survey was completed on Tuesday, May 15, 2012. A total of 45 sets of five-minute observations were made from 05:09 to 21:45 at five different stations located at significant vantage points at the Schaefer Road Wastewater Treatment Plant (SRWWTP). Observations were made at this frequency in order to ensure a complete and scientifically sound inventory, to ensure quality assurance of the data collected, and to evaluate allegations of wildlife utilization of the impoundments. Observations were both visual and aural. Visual observations were made using Zeiss FL T* 10 x 42 power binoculars. The location of the five stations designated by MEC Environmental Consulting, which have been used in previous surveys and will continue to be used in subsequent surveys, is presented in the first enclosed table.

Weather conditions varied slightly over the period, and were influenced primarily by a slowly retreating strong low pressure system centered over the mid-Atlantic states with a cold front extending south along the coast, an occluded front extending from Pennsylvania to Kentucky, a large high pressure centered over the Mldwest, and a low pressure system centered over southwestern Ontario with a warm front extending east and a cold front extending southwest. Barometric pressure, based on radio-broadcast readings from Detroit Metro Airport, was 29.98 in.-Hg and falling at 04:00, 29.99 in.-Hg and steady at 09:00, 29.98 in.-Hg and falling at 11:00, 29.97 in.-Hg and falling at noon, and 29.85 in.-Hg and steady at 21:00. Relative humidity, also based on radio broadcast National Weather Service data, was 68% at 04:00, 69% at 09:00, 40% at 11:00, 29% at noon, and 41% at 21:00. Sky conditions were clear to mostly clear throughout the day and partly cloudy to mostly cloudy during the evening. Temperatures ranged from 52° F at 04:47, to 54° F around 05:09, to 61° F around 08:02, to 66° F around 09:16, to 78° F around 11:46, to 80° F at 12:42, to 82° F around 18:59, and then to 79° F around 20:38, and to 71° F around 21:57. Winds were generally out of the south throughout the

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period, except for brief periods in the morning when winds were out of the west and southwest, at least an hour in the mid-afternoon when winds were out of the west, and in the evening when winds were out of the east-southeast and southwest. Wind speed was approximately 0-3 mph until around 08:00, to 3-8 mph until around noon, to 8-15 mph in the afternoon and early evening, and 0-5 mph during the late evening. A last quarter moon was observed in the southeast sky before sunrise. Sunrise was at 06:12; sunset was at 20:48.

A total of 33 bird species was observed within the fenceline of the SRWWTP. This species total is one species lower than the 2000-2011 March mean of 34. Although the night before the survey was not ideal for bird migration because of areas of fog and the passing cold front to the south, a number of migrants were still observed because the survey was conducted at the peak of the avian spring migration. Thus, a greater variety and number of birds than that observed at the SRWWTP was expected. This information suggests that the habitat modifications and deterrents in-place at the SRWWTP are effective.

Two non-human mammalian species was observed during the survey: Eastern Cottontail (*Sylvilagus floridanus*) and Eastern Fox Squirrel (*Sciurus niger*). At 05:19 two Eastern Cottontails were observed by spotlight to forage in the grass north of the south perimeter fence south of the East Sludge Pond. At 21:54 presumably a different individual was briefly observed by vehicle headlights at the top of the southeast bank of the Secondary Lagoon immediately northeast of the belt skimmer. None of these individuals were viewed well enough to determine if their fur was oiled or stained. At 19:44 one Eastern Fox Squirrel was observed to quickly scamper east through the grass just north of the south perimeter fence. This individual did not appear to have staining or oil on its fur.

One reptilian species was observed during the survey: Painted Turtle (*Chrysemys picta*). At 19:09 one female Painted Turtle was observed on the east shoulder of the road east of the Diked Lagoon and near the toe of the outer slope southeast of Station No. 4. No oil was observed on this individual which appeared to be headed for the Diked Lagoon. The wildlife specialist placed the animal in the bermed area nearby. At 20:17 a second Painted Turtle was observed on the east shoulder of the road west of the Diked Lagoon at the toe of the outer slope opposite the south end of the dogleg of the bermed area. No evidence of oil was observed on this individual.

Two amphibian species was observed during the survey: Green Frog (*Rana clamitans*) and American Toad (*Bufo americanus*). At 12:57 approximately 100 probable Green Frog tadpoles were observed to swim and loaf in the water along west side of the East Sludge Pond. Approximately 18 Green Frog tadpoles were observed in the water along the east side of the East Sludge Pond at 13:32. At 14:03 a possible Green Frog was observed to jump in the West Sludge Pond approximately three feet east of the northwest corner of the pond. At 21:19 one American Toad was observed to vocalize from what sounded like the east outer bank of the Diked Lagoon. At 21:42 two American Toads were observed to vocalize from what sounded like the area between the East and West Sludge Ponds. None of these amphibians were seen.

In addition, two large Carp (*Cyprinus carpio*) were observed along the east side of the Secondary Lagoon at 06:55 and 07:08. Two medium-sized Carp were observed at 07:11 along the east side of the Secondary Lagoon opposite the pumphouse. Approximately 15 relatively small Carp were observed at 14:50 along the east central side of the Secondary Lagoon.

The entire shoreline of each impoundment was systematically checked at least once during the day. Only the shorelines of the Primary Lagoon (except the north end under the net), Diked Lagoon, sludge ponds (except for the inaccessible west side of the West Sludge Pond) and the south side of the Secondary Lagoon, however, were walked due to steep slopes of the rest of the impoundments. The shorelines of these impoundments were searched from top of grade and other angles using binoculars. Animal sign observed during this search is summarized in the third enclosed table. Photographs, including those of animal sign, are enclosed.

Two remains were found: a European Starling (*Sternus vulgaris*) carcass at the top of the northeast bank of the Primary Lagoon at the base of the utility pole, and Mallard (*Anas platyrhynchos*) wing feathers on the lower to middle slopes of the east bank of the Primary Lagoon approximately 8 feet north of the mop tray of OMI 1. Both sets of remains appeared to be oiled. These remains will be discussed subsequently in separate reports.

If you have any questions regarding this report please call me at (248) 585-3800. Thank you for choosing MEC Environmental Consulting for your wildlife management needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael E. Carlson

Principal

enclosures

No.	Location	Vantage Point for
1	Between East and West Sludge	East Sludge Pond
	Ponds, on the south side, between the	West Sludge Pond
	two guard rails	South Clarifier (part)
2	East side of Secondary Lagoon at	Secondary Lagoon
	north end of guard rail opposite the North Clarifier	North Clarifier (most)
3	South central end of Primary Lagoon just east of weather station	Primary Lagoon
4	Southeast corner of Diked Lagoon	Diked Lagoon Secondary Lagoon (except S end) Primary Lagoon
5	South Central Side of Bermed Area*	Bermed area*, except west end (including dogleg) Diked Lagoon

^{*} not a wastewater treatment pond or lagoon

Tuesday, May 15, 2012

Common Name	Scientific Name	Maximum			Are	າລີ	di cui e	Notes
Comment		Number	T	C	si	ΡĪ	БΤ	B
Common Loon	Gavia immer		Γ			┪		
Pied-billed Grebe	Podilymbus podiceps		Τ	П		\top	7	
Horned Grebe	Podiceps auritus		Γ	П		┪	T	
Double-crested Cormorant	Phalacrocorax auritus	1		Х	X	\top	1	1, 2, 3, 4,
American Bittern	Botaurus lentiginosus		Г			十	1	
Great Blue Heron *	Ardea herodias	1			X	xT	1	(
Great Egret *	Ardea alba		П			十	+	
Snowy Egret	Egretta thula			+	7	\top	+	
Green Heron *	Butorides virescens	1	H	\dashv	+	\dagger	1;	X 2, 3, 5, 7, 8
Black-crowned Night-Heron *	Nycticorax nycticorax	1		+	\top	+		X 2, 3, 9
Yellow-crowned Night-Heron	Nyctanassa violacea			\dashv	+	- -	+	2, 0,
Glossy Ibis	Plegadis falcinellus		\dashv	\dashv	+	╁	+	
Turkey Vulture	Cathartes aura		\vdash	\dashv	╁	+	╁	
Snow Goose	Chen caerulescens		\dashv	┪	+	+	+	
Cackling Goose	Branta hutchinsii			\dashv	╁	+	+	
Canada Goose *	Branta canadensis	13	\dashv	+	-	$\langle \rangle$	\pm	(2, 10
Mute Swan *	Cygnus olor		\dashv	+	+	+	+	2, 10
Tundra Swan	Cygnus columbianus		-	\dashv	+	-	+	
Wood Duck *	Aix sponsa		\dashv	+	╁	+	+	
Gadwall	Anas strepera		+	+	+	+	+	
American Wigeon	Anas americana			+	+	- -	+	
American Black Duck *	Anas rubripes		\dashv	+	╀	╁	╀	
Mallard *	Anas platyrhynchos	1	\dashv	-	╀╌	+	 x	0 0 7 44
Blue-winged Teal *	Anas discors		+	+	╀	+-	╀	2, 3, 7, 11
Northern Shoveler	Anas clypeata		+	+	-	+	╁	
Northern Pintail	Anas acuta		+		+	-	+-	
Green-winged Teal	Anas crecca		\dashv	+	╀	╬	\vdash	
Canvasback	Aythya valisineria		+	+	+-	╄	╀-	
Redhead	Aythya americana		4	- -	+	-	-	
Ring-necked Duck	Aythya collaris		\dashv	+	+-	+	╀	
Greater Scaup	Aythya marila		+	- -	╀	\vdash	<u> </u>	
Lesser Scaup	Aythya affinis	<u> </u>	+		+	-	┡	
Long-tailed Duck	Clangula hyemalis		+	+	┨-	-	-	
Bufflehead	Bucephala albeola		_	-	╀	┦_	L	
Common Goldeneye	Bucephala clangula		+	+	╀	_	L	
Hooded Merganser	Lophodytes cucullatus		_	\bot	_	L	_	
Red-breasted Merganser	Mergus serrator		4	_	┞-		_	
Common Merganser	Mergus merganser		4-	\bot	<u> </u>	<u> </u>	L	
Ruddy Duck	Oxyura jamaicensis		_	\bot	<u> </u>		_	
Osprey	Pandion haliaetus		\bot	\perp	_			
	Page 1							

Common Name	Scientific Name	Maximum			Α	геа	3		Notes
		Number		TC	s	ĬΡ	Ī	ÌВ	_ ivoles
Bald Eagle	Haliaeetus leucocephalus		Ţ				1		
Northern Harrier	Circus cyaneus		T				T	T	-
Sharp-shinned Hawk	Accipiter striatus					T	T		
Cooper's Hawk *	Accipiter cooperii								
Broad-winged Hawk	Buteo platypterus		†			T	1	1	
Red-tailed Hawk *	Buteo jamaicensis		T			T	╁	T	
Rough-legged Hawk	Buteo lagopus		十			 	T	†	
American Kestrel *	Falco sparverius		T	† †			十	╁	
Merlin	Falco columbarius		†-	П			-	+	
Peregrine Falcon	Falco peregrinus		T	H		-	t	\vdash	
Ring-necked Pheasant *	Phasianus colchicus		1-	\vdash		_	╁	+	
Northern Bobwhite *	Colinus virginianus		┢	H		-	┝	╁	
Virginia Rail	Rallus limicola		H			_	┞	╁	
Sora	Porzana carolina	1	-	\vdash	_	-	-	X	2, 3, 7, 12
Common Gallinule	Gallinula galeata		-	┝┼	_		⊢		2, 0, 7, 12
American Coot	Fulica americana			\vdash	4		-		
Black-bellied Plover	Pluvialis squatarola		-		-		_	\vdash	
American Golden-Plover	Pluvialis dominica		Н	┝╌┼	_			\vdash	Web-
Semipalmated Plover	Charadrius semipalmatus				-		_		
Killdeer *	Charadrius vociferus	0	Х	\dashv	J	Ÿ	~	Х	0.0.40
Greater Yellowlegs	Tringa melanoleuca	0	^		\mathcal{A}	^	_		2, 3, 13
Lesser Yellowlegs	Tringa flavipes				-	_			
Solitary Sandpiper	Tringa solitaria			+	-	_			
Spotted Sandpiper *	Actitis macularius		Χ		-	Ţ	.	V	
Whimbrel	Numenius phaeopus	3	$^{\wedge}$	_	4	^		X	14
Ruddy Turnstone	Arenaria interpres			_	4	4			
Red Knot	Calidris canutus		_	\perp	4	4			
Sanderling	Calidris alba			_	1			_	
Semipalmated Sandpiper	Calidris pusilla		_	_	4	4			
Western Sandpiper	Calidris mauri			_	_	_	_		
Least Sandpiper	Calidris minutilla		_		1	_			
White-rumped Sandpiper			_		1	\bot		\bot	
Baird's Sandpiper	Calidris fuscicollis		\downarrow		1	1	_		
Pectoral Sandpiper	Calidris bairdii		\perp		1			\perp	
Dunlin	Calidris melanotos				_	\perp			
Short-billed Dowitcher	Calidris alpina								
	Limnodromus griseus								
Wilson's Snipe	Gallinago delicata								
American Woodcock *	Scolopax minor	4	X			7	X	X	2, 3, 7, 15
Wilson's Phalarope	Phalaropus tricolor				T	T	\top		
Bonaparte's Guil	Chroicocephalus philadelphia					\top	1	\top	
Ring-billed Gull *	Larus delawarensis				T	\top	7	\dashv	
Herring Gull *	Larus argentatus	2	X	Х	†	x†	+	\top	1, 2, 3, 16
Thayer's Gull	Larus thayeri		1	†	T	十	+	十	
Glaucous Gull	Larus hyperboreus		+		†	\dagger	+	+	

Common Name	Scientific Name	Maximum			Α	геа	3		Notes
Great Black-backed Gull		Number	1	. C	S	ĮΡ	D	В	
	Larus marinus					L			
Caspian Tern	Hydroprogne caspia		L						
Common Tern *	Sterna hirundo								
Forster's Tern *	Sterna forsteri								
Black Tern *	Chlidonias niger		Γ	T	Π				
Rock Pigeon *	Columba livia		Π	T	Π	Π	Τ	Γ	
Mourning Dove *	Zenaida macroura	1	Γ	1		Γ	X		2, 3, 7, 17
Black-billed Cuckoo	Coccyzus erythropthalmus		1				1	П	
Eastern Screech Owl *	Megascops asio		Ţ		T				
Great Horned Owl *	Bubo virginianus		Γ				1	П	
Snowy Owl	Bubo scandiacus		Τ	T	T		T		
Short-eared Owl	Asio flammeus		<u> </u>	T	<u> </u>	\vdash	1		
Common Nighthawk	Chordeiles minor	1	T	╁	Х	-	┢		1, 2, 4, 18
Chimney Swift *	Chaetura pelagica			T		H	-		-1 -1 -1 -1
Ruby-throated Hummingbird *	Archilochus colubris		╀	T					
Belted Kingfisher *	Ceryle alcyon	***************************************	┢			-			
Red-headed Woodpecker *	Melanerpes erythrocephalus		┝	┢	_	-	-	\vdash	***************************************
Red-bellied Woodpecker *	Melanerpes carolinus		┢	┢		_	\vdash	\dashv	
Downy Woodpecker *	Picoides pubescens		 	├-		-	_		
Hairy Woodpecker *	Picoides villosus		├	-			\vdash	-+	
Northern Flicker *	Colaptes auratus		ļ	 				-	
Eastern Wood-Pewee *	Contopus virens		-	-			Н	4	
Yellow-bellied Flycatcher	Empidonax flaviventris						\dashv	-	
Alder Flycatcher	Empidonax alnorum	 				_		\dashv	
Willow Flycatcher *	Empidonax traillii			-		-		_	
Least Flycatcher *	Empidonax minimus	1	_	\vdash	_	-	-	x	2 2 4 7
Eastern Phoebe	Sayornis phoebe					-	-	4	2, 3, 4, 7
Great Crested Flycatcher *	Myiarchus crinitus			$ \cdot $	-	_	-	+	
Eastern Kingbird *	Tyrannus tyrannus	2	-		\dashv	Х	ᆡ	_	
White-eyed Vireo	Vireo griseus			\square		4	4	\dashv	2, 3, 19
Blue-headed Vireo	Vireo solitarius					_	\dashv	+	
Yellow-throated Vireo *	Vireo flavifrons		\dashv	\dashv	-	_	\dashv	\perp	
Warbling Vireo *	Vireo gilvus		_		_	\dashv	\downarrow	J	
Philadelphia Vireo	Vireo philadelphicus	4		_	\dashv	_	X	<u> </u>	2, 3, 4, 7, 20
Red-eyed Vireo *	Vireo olivaceus			_	_	4	_	_	
Blue Jay *	Cyanocitta cristata		_		4	4	_	\perp	
American Crow *			_		[_	_	_	
Horned Lark	Corvus brachyrhynchos		_	4	4	\dashv	_	\perp	
Purple Martin *	Eremophila alpestris		_		\perp		\downarrow		
Tree Swallow *	Progne subis					\perp			
	Tachycineta bicolor	1	_	_			X		1, 7, 21
Northern Rough-winged Swallow*	Stelgidopteryx serripennis	3			X.	X	X.	X	2, 4, 22
Bank Swallow *	Riparia riparia						\int	\int	
Barn Swallow *	Hirundo rustica	6	X			X .	X		1, 2, 4, 23
Cliff Swallow *	Petrochelidon pyrrhonota		Ī	T	T	T	T	T	

Common Name	Scientific Name	Maximum			Αı	rea	1		Notes
Plant		Number	I	C				В	in (2002) (2008) (2008)
Black-capped Chickadee *	Poecile atricapillus						T		
Tufted Titmouse *	Baeolophus bicolor								
Red-breasted Nuthatch	Sitta canadensis					Π		Γ	
White-breasted Nuthatch *	Sitta carolinensis					Г		Γ	
Brown Creeper	Certhia americana					Ì	Г		
Carolina Wren *	Thryothorus ludovicianus			П			1		414
House Wren *	Troglodytes aedon	***				Г	Т		
Winter Wren	Troglodytes hiemalis						╁┈		
Sedge Wren	Cistothorus platensis					Г	T		
Marsh Wren	Cistothorus palustris							П	
Blue-gray Gnatcatcher	Polioptila caerulea			1			┞		
Golden-crowned Kinglet	Regulus satrapa						\vdash		****
Ruby-crowned Kinglet	Regulus calendula				_				
Eastern Bluebird	Sialia sialis			\dashv			 	H	
Veery	Catharus fuscescens			\dashv		-		H	
Gray-cheeked Thrush	Catharus minimus			+			-	┞╌┤	
Swainson's Thrush	Catharus ustulatus		\dashv	_	\dashv		-	Н	
Hermit Thrush	Catharus guttatus			+	+			\vdash	
Wood Thrush *	Hylocichla mustelinus		-	+	┪				
American Robin *	Turdus migratorius	17	X	-	x	Х	Х	х	24
Gray Catbird *	Dumetella carolinensis			\dashv		$\stackrel{\wedge}{-}$			Z-T
Northern Mockingbird	Mimus polyglottos		\dashv	+	\dashv			\dashv	
Brown Thrasher *	Toxostoma rufum		\dashv	+	+			\dashv	
European Starling *	Sturnus vulgaris	71	x	+	x	\dashv	X	$\frac{1}{x}$	2, 3, 25, 26
American Pipit	Anthus rubescens			+	+	-	$\stackrel{\sim}{+}$	$\stackrel{\wedge}{+}$	2, 3, 23, 20
Cedar Waxwing *	Bombycilla cedrorum		\dashv	+	+	-	-	\dashv	
Blue-winged Warbler	Vermivora cyanoptera		-	+	+	\dashv	-	\dashv	
Golden-winged Warbler	Vermivora chrysoptera		\dashv	_	+	-	\dashv	\dashv	
Tennessee Warbler	Oreothlypis peregrina	1	+	-	+	\dashv	\dashv	╁	2 2 4 7
Orange-crowned Warbler	Oreothlypis celata	1	+	+	+			4	2, 3, 4, 7
Nashville Warbler *	Oreothlypis ruficapilla		\dashv	+	+	_	\dashv	- -	
Northern Parula	Setophaga americana		\dashv	+	+	\dashv	\dashv	+	
Yellow Warbler *	Setophaga petechia	4	-	+	+	\dashv	-	$\frac{1}{x}$	2 2 4 27
Chestnut-sided Warbler	Setophaga pensylvanica		\dashv	- '	7	\dashv	-	4	2, 3, 4, 27
Magnolia Warbler	Setophaga magnolia			+	+	4	4	4	
Cape May Warbler	Setophaga tigrina		4	_	+	_	\dashv	_	
Black-throated Blue Warbler	Setophaga virens		4	-	\downarrow	\dashv	\dashv	+	
Yellow-rumped Warbler	Setophaga coronata		_	+	+	-	-	_	
Black-throated Green Warbler	Setophaga virens		+	_	\downarrow	4	_	4	
Pine Warbler	Setophaga pinus		_	-	+	4	_	4	
Prairie Warbler	Setophaga discolor		4	\bot	\downarrow	_	4	\perp	
Palm Warbler	Setophaga palmarum		\bot		1	4	4	\perp	
Bay-breasted Warbler	Setophaga castanea		\downarrow	\downarrow	\downarrow	4	\downarrow	\downarrow	
Blackpoll Warbler			4	\bot	_	\perp	\perp	\bot	
praction vvalues	Setophaga striata								

Common Name	Scientific Name	Maximum			A	rea			Notes
		Number		C	S	Р	ם	В	
Cerulean Warbler	Setophaga cerulea								
Black-and-white Warbler	Mniotilta varia								
American Redstart	Setophaga ruticilla		Τ						
Prothonotary Warbler	Protonotaria citrea		T	T					
Ovenbird *	Seiurus aurocapilla		T	T					
Northern Waterthrush	Parkesia noveboracensis		T	 		П		┌	
Mourning Warbler *	Geothlypis philadelphia					П			
Common Yellowthroat *	Geothlypis trichas		T	 			_	П	
Wilson's Warbler	Cardellina pusilla		T	1					
Canada Warbler	Cardellina canadensis		1	1		П			
Yellow-breasted Chat	Icteria virens		╁						
Scarlet Tanager *	Piranga olivacea		t		_				
Eastern Towhee *	Pipilo erythrophthalmus		\vdash	Н		\dashv			
American Tree Sparrow	Spizella arborea		╁						
Chipping Sparrow *	Spizella passerina	1	╁	H		\dashv	_	Х	2, 3, 4, 7
Field Sparrow *	Spizella pusilla		├	Н		\dashv	\dashv		2, 0, 7, 1
Vesper Sparrow *	Pooecetes gramineus		╁	\vdash	\dashv	-		_	
Savannah Sparrow *	Passerculus sandwichensis		-	\vdash	\dashv	\dashv	-	_	
Grasshopper Sparrow	Ammodramus savannarum			Н		+	-	\dashv	
Henslow's Sparrow	Ammodramus henslowii		-	\vdash	-	-	\dashv	-	
Fox Sparrow	Passerella iliaca		-		\dashv	-	4	\dashv	<u></u>
Song Sparrow *	Melospiza melodia	6	-	\vdash		-		Х	2 2 7 00
Lincoln's Sparrow	Melospiza lincolnii			\vdash	\dashv		4	4	2, 3, 7, 28
Swamp Sparrow *	Melospiza georgiana			\vdash	-	\dashv	4	_	
White-throated Sparrow	Zonotrichia albicollis			\Box	\dashv	4	4	\dashv	
White-crowned Sparrow	Zonotrichia leucophrys				\dashv	_	4	_	
Dark-eyed Junco	Junco hyemalis			-	4	+	4	_	
Lapland Longspur			_	\dashv	4	4	4	4	
Snow Bunting	Calcarius Iapponicus Plectrophenax nivalis			-	4	_	4	4	
Northern Cardinal *	Cardinalis cardinalis			_	4	\downarrow	4	_	
Rose-breasted Grosbeak *		1	_	\perp	4	_	4	X	2, 3, 4, 7
Indigo Bunting *	Pheucticus Iudovicianus			_	_	_	\downarrow	_	
Dickcissel	Passerina cyanea		_	_	1	4	1	\bot	
Bobolink *	Spiza americana			\bot	\perp	_			
Red-winged Blackbird *	Dolichonyx oryzivorus			_	\perp	_	1		
Eastern Meadowlark *	Agelaius phoeniceus	111	X		<u>\</u>	X)	4	뵟	29
	Sturnella magna						\perp		
Rusty Blackbird	Euphagus carolinus								
Common Grackle *	Quiscalus quiscula	77	Х	;	<		(]	X	30
Brown-headed Cowbird *	Molothrus ater	1			_[;	X	Ī		2, 3, 7, 31
Orchard Oriole *	Icterus spurius	2					7	X	2, 3, 4, 7
Baltimore Oriole *	Icterus galbula	6			T	>	क	X	2, 3, 4, 32
Purple Finch	Carpodacus purpureus		\top	\top	1		T	1	
House Finch *	Carpodacus mexicanus	1	\top	+	Ť	7	1	Χ	2, 3, 7
Red Crossbill	Loxia curvirostra		1	1	十	1	Ť	†	

Scientific Name				Α	rea		440	Notes
	Number	L	Ic	Is	ĪΡ	Īδ	B	
Loxía leucoptera			T	┪		T		
Acanthis flammea			\vdash	t	+	\vdash	\vdash	
Spinus pinus		┢	┢	†	t	╁	╁	
Spinus tristis	16	X	x	x	Х	x	X	2, 3, 4, 33
Coccothraustes vespertinus		<u> </u>	╁	\vdash	\dagger			_, _, ,, _,
Passer domesticus			\vdash	╁	┼-	┢		
——————————————————————————————————————	33	1						
	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis 16 X Coccothraustes vespertinus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Spinus tristis Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus Passer domesticus	Number L C S P D B Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis 16 X X X X X X Coccothraustes vespertinus Passer domesticus

LEGEND

Number means the maximum total observed within the fenceline at the facility; effort was made to avoid any double-counting.

* Indicates species known or suspected to breed in the general area encompassing the site based on generalized state maps (showing county boundaries) presented in "The Atlas of Breeding Birds of Michigan" by R. Brewer et al. (MSU Press: East Lansing, 1991). It should be emphasized that many of the species indicated as breeding birds have specific habitat requirements that are not met by the industrial environment at the Schaefer Road Wastewater Treatment Plant (SRWWTP) and the surrounding area. Thus, species marked with an asterisk above should not be assumed to breed at or even adjacent to the SRWWTP.

Species list adapted from "Bird Checklist of Michigan" (Thayer's Birding Software, 1999) considering habitat provided by site and immediately surrounding areas. Nomenclature is based on the 52nd Supplement to the American Ornithologists' Union "Checklist of North American Birds" (2011).

Bird data collected at five different stations over five-minute intervals throughout the day. Survey performed by Michael Carlson from 5:09 AM to 9:40 PM.

X indicates observations made. It should be emphasized that "X" means that the species was observed within the fenceline of the SRWWTP in proximity to the particular impoundment and, unless otherwise noted, not on or in contact with the water or immediately adjacent to the water at a particular impoundment. In many cases, the species was observed flying over the pond, sometimes higher than 200 feet.

Impoundment Designations:

- L Sludge Ponds
- C Clarifiers
- S Secondary Lagoon
- P Primary Lagoon
- D Diked Lagoon

Other Area Designations:

B Bermed Area

Tuesday, May 15, 2012

NOTES

- Individual(s) observed flying over the SRWWTP.
- Individual(s) was not observed at or near the water's edge of any of the wastewater treatment ponds and lagoons.
- Individual(s) showed no interest in water surfaces of the SRWWTP wastewater treatment ponds and lagoons.
- 4. Individual(s) likely recently arrived migrant(s) or still in the process of migration.
- 5. At 09:16 one individual was observed to fly south-southeast over the south end of the Secondary Lagoon and clarifiers at an estimated height of approximately 100-150 feet above ground surface.
- 6. At 06:52 one individual was observed to flush from the Secondary Lagoon, possibly from the north diagonal boom, due to the approach of the wildlife specialist. The bird was observed to fly north at an estimated height of approximately 2 to 8 feet above the water surface, and to be harassed by a male Red-winged Blackbird. The heron was then observed to fly west over the west bank of the Secondary Lagoon and the Primary Lagoon and to exit the SRWWTP. This individual was viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on the birds due to the pale gray neck and whitish face and whitish marginal coverts which are characteristic of this species.
- Individual heard, but not seen.
- 8. At 15:32 one individual was observed to call from the dogleg of the bermed area.
- 9. Around 08:42 one individual was observed to call from the bermed area proper. Approximately 120-180 seconds later the bird was very briefly observed to fly west. This individual was not viewed through binoculars but only the naked eye for a fraction of a second. Due to these facts, no conclusion can be made concerning the condition of plumage of this individual.
- 10. At 06:54 one individual was observed to fly north over the Primary Lagoon. This individual was observed to slow its flight and to rather abruptly turn around over the north end of the Primary Lagoon, to fly southwest, and to exit the SRWWTP. At 07:21 two individuals were observed to fly north over the dogleg of the bermed area and to assume a landing position. Both birds were observed to fly north over the Primary and Diked Lagoons, to turn and to fly west over the bermed area proper, and then to turn again over the dogleg of the bermed area and to fly south at an estimated height of approximately 50-80 feet above ground surface. Around 09:48 one individual was observed to call from the bermed area. At 21:14 a flock of 10 individuals was observed to call and to fly north over the plain northwest of the Primary Lagoon, and then to make a U-turn over the dogleg of the bermed area. The flock was then observed to fly south and to exit the SRWWTP in the general direction in which it came. Most of these individuals were viewed through binoculars, albeit very briefly. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that any oil would likely have been apparent on these birds due to the white throat-cheek patch, white vent, white femoral tract and rump, and pale breast which characterize this species.
- 11. At 05:43 one individual was observed to call from the west end of the bermed area proper.
- 12. Around 08:48 one individual was observed to call from the bermed area proper.

Tuesday, May 15, 2012

NOTES

(Continued)

- Around 05:26 one individual was observed to call from the plain south of the Primary Lagoon. At the same time 13. a second individual was observed to call from the plain west of the Primary Lagoon. At 05:36 four individuals were observed to call from the plain west of the Primary Lagoon. Around 05:47 one individual was observed to call from what sounded like the road south of the Diked Lagoon. Around 05:56 presumably one of the same individuals was observed to call from the plain northwest of the Primary Lagoon. Around 06:16 one individual was observed to call from what likely was the plain south of the Primary Lagoon. At the same time one individual was observed to call from what sounded like the top of the west central bank of the Secondary Lagoon. Around 06:22 presumably one of the same individuals was observed to flush, due to the approach of the SRWWTP vehicle, from near the top of the west bank of the Secondary Lagoon, and to fly south to the road north of the East Sludge Pond. Around 06:24 this bird was observed to flush, due to the approach of the wildlife specialist, and to fly south to the plain south of the East Sludge Pond, where it was observed to forage in the grass. Possibly the same individual was observed at 06:32 to call from the ground near the west perimeter fence immediately north of the West Sludge Pond. This bird was observed to flush at the approach of the wildlife specialist, and was observed to exit the SRWWTP by flying west over the perimeter fence. Around 06:40 one individual was observed to call from the plain south of the Primary Lagoon. Around 07:15 one individual was observed to call likely from the plain west of the Primary Lagoon. At 07:41 one individual was observed to fly east over the bermed area proper. At 07:45 one individual was observed to call from the grass of the plain northwest of the Primary Lagoon. At 07:48 and 10:41 three individuals were observed to forage in the grass of the plain west of the Primary Lagoon. Around 08:02 one individual was observed to forage in the road south of the East Sludge Pond. Around 08:55 one individual was observed to call from what sounded like the plain northwest of the Primary Lagoon. Around 09:48 one individual was observed to call from the plain west of the Primary Lagoon. At 10:21 one individual was observed to call from the plain north of the Primary Lagoon. Around 10:30 one individual was observed to call from the airspace over the Diked Lagoon. Around 10:58 one individual was observed to forage south of the road south of the East Sludge Pond. Around 11:35 one individual was observed to forage in the grass of the plain south of the East Sludge Pond. Around 19:43 one individual was observed to call from the plain south of the East Sludge Pond. Around 19:59 one individual was observed to call from the plain west of the Primary Lagoon. All of the individuals observed were adults. Several of these individuals were viewed through the naked eye and binoculars at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on any of these other individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white eyebrow, forehead, throat, collar, lower breast, belly, vent, wing stripe, tail tip, and underwing coverts that characterize the plumage of this species.
- At 06:07 one individual was observed to call and to fly south over the Secondary Lagoon at an estimated height 14. of approximately one foot above the water surface. Around 07:26 one individual was observed to call from the top of the north bank of the Diked Lagoon approximately 18 feet southeast of Station No. 5. Seconds later the same bird was observed to fly west at an estimated height of approximately 1-5 feet above the surface of the water. Around 07:54 one individual was observed to call from what sounded like the west bank of the Primary Lagoon. Around 08:17 one individual was observed to call from what sounded like the top of the west bank of the Secondary Lagoon. Around 10:30 one individual was observed to fly southeast over the west end of the bermed area proper at an estimated height of approximately 10-20 feet above ground surface. This individual was observed to land on the top of the north bank of the Diked Lagoon. Around 11:05 one individual was observed to call from what sounded like the southwest bank of the Secondary Lagoon. Around 11:14 one individual was observed to forage on the middle slope of the south bank of the East Sludge Pond under the net. The bird was observed to walk up the slope and was then observed to be above the net. At 18:07 one individual was observed to flush, due to the approach of the wildlife specialist, from the lower slope of the northwest bank of the Primary Lagoon near the south side of the hoist. This individual was observed to fly southeast at an estimated height of approximately 3-5 feet above the water surface. Around 18:59 one individual was observed to call from what sounded like the south bank of the Secondary Lagoon but possibly could have been the East Sludge Pond. Around 19:35, 19:59, and 20:07 one individual was observed to call from the Primary Lagoon.

Tuesday, May 15, 2012

NOTES

(Continued)

Around 20:23 possibly the same individual was observed to call from what sounded like the southwest bank of the Primary Lagoon. Around 21:16 one individual was observed to call from what sounded like the west bank of the Primary Lagoon. Around 21:25 one individual was observed to call from what sounded like the lower slope of the southwest bank of the Primary Lagoon. All of the individuals observed were adults. Several of these individuals were viewed through the naked eye and binoculars at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on any of these other individuals. It should be noted that any oil would likely have been apparent on this bird due to the narrow white supercilium, white belly and vent, whitish underwing coverts, and narrow white wing stripe (base of the secondaries) that characterize the adult alternate plumage of this species.

- 15. Around 05:17 one individual was observed to give the nasal ground call, characteristic of this species, from what sounded like the plain south of the East Sludge Pond. Around 21:06 one individual was observed to give the nasal ground call from what sounded like the top of the south central outer slope of the Diked Lagoon. At the same time a second individual was observed to give the nasal ground call from the bermed area. The individual at the south outer slope of the Diked Lagoon was again observed to give the nasal ground call around 21:16. At the same time presumably a different individual was observed to give the aerial flight song over the bermed area.
- At 06:48 one adult was observed to fly southeast over the Secondary Lagoon at an estimated height of approximately 80-100 feet above ground surface. This individual was viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been very apparent on especially a third or fourth year bird, due to the bird's prominent white plumage on the head, breast, belly, and underwing. Around 10:49 one individual was observed to call from the airspace over the Primary Lagoon. This bird was likely flying well over 200 feet above ground surface because it could not be readily seen with the naked eye.
- 17. At 09:45 one individual was observed to flush from the tree at the east end of the south outer slope of the Diked Lagoon south Station No. 4 due to the approach of the wildlife specialist. The bird apparently flew east based on wing noise but was never seen.
- Around 20:54 one individual was observed to call and to aerially forage for flying insects over the Secondary Lagoon as it flew southwest. The bird initially was observed to call at an estimated height of approximately 400 feet above ground surface. Once located in the field of the binoculars, the bird was observed to dive approximately 200-300 feet to approximately 60-80 feet above ground surface. Due to the ambient noise level, however, the vibrato of its wings at the nadir of the dive was not heard. This individual was viewed through binoculars at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent due to the conspicuous white patch at the base of the primaries in each wing which is characteristic of the plumage of this species.
- 19. At 07:03 one individual was observed to call from atop the Primary Lagoon fence opposite the weather station, located opposite the top of the southwest bank of the Primary Lagoon. Around 08:17 presumably the same individual was observed to call from what sounded like the top of the south bank of the Primary Lagoon. Around 09:35 presumably the same individual was observed to call from the north and then the south guy wires of the weather station opposite the top of the southwest corner of the Primary Lagoon. Around 10:21 a second individual was observed to call from the south central outer slope of the Diked Lagoon. Only the first individual associated with the south Primary Lagoon fence and weather station was viewed through the naked eye and binoculars at close range. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been very apparent on this bird due to the white terminal tail band and white underparts which characterize the plumage of this species.

Tuesday, May 15, 2012

NOTES

(Continued)

- Around 05:47 and 05:56 one individual was observed to sing in the dogleg of the bermed area. Around 08:32 presumably a different individual was observed to sing from the bermed area proper. Around 08:55 and 09:56 two individuals were observed to sing: likely the same individual and presumably a different individual from the dogleg of the bermed area. Around 09:48 presumably one of the same individuals was observed to sing from the south central outer slope of the Diked Lagoon. Around 10:30 two individuals, including presumably a different individual, were observed to sing from the bermed area proper.
- 21. Around 08:07 one individual was observed to call from the airspace over the Diked Lagoon.
- 22. At 05:39 one individual was observed to call from the airspace over the Primary Lagoon. At 05:43 presumably a different individual was observed to call from the airspace over the bermed area and Diked Lagoon. Around 05:47 and 08:32 presumably a different individual was observed to call from the airspace over the Diked Lagoon. At 06:02 presumably the same two individuals were observed to aerially forage for flying insects over the north end of the Secondary Lagoon at an estimated height of approximately 15-40 feet above ground surface. At 06:04 presumably the same two individuals were observed to rest and to call on the wire over the north end of the Secondary Lagoon. At 08:11 presumably one of the same individuals was observed to aerially forage for flying insects over the south end of the Secondary Lagoon. At 08:28 presumably one of the same individuals was observed to call from the airspace over the north end of the Secondary Lagoon. At 14:54 one individual was observed to rest on the wire over the north end of the Secondary Lagoon. The individuals at the Secondary Lagoon were viewed through binoculars albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that oil would likely have been apparent on the birds due to the pale gray breast, whitish belly, and white undertail coverts which are characteristic of this species.
- Around 08:17 one individual was observed to aerially forage for flying insects over the plain south of the Primary Lagoon at an estimated height of approximately 8-12 feet above ground surface. At 13:10 presumably a different individual was observed to aerially forage for flying insects as it flew south over the Sludge Ponds at an estimated height of approximately 100 feet above ground surface. At 13:58 a group of three individuals was observed to aerially forage for flying insects over the West Sludge Pond at an estimated height of approximately 3-12 feet above the water surface. Around 19:59 one individual was observed to call from the airspace over the Diked Lagoon. All of the individuals seen were adults. These individuals were viewed through the naked eye and binoculars at relatively close range, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that any oil would likely have been apparent due to the off-white to orange-beige breast, belly, and undertail and wing coverts which characterize the adult plumage of this species.
- 24. Many of the observations, particularly those made before sunrise and sunset, were of individuals singing and calling. Only sight observations are presented below. At 05:33 one individual was observed to call from the grass at the top of the southwest bank of the Primary Lagoon. Around 06:24 one individual was observed to forage in the grass south of the East Sludge Pond near the south perimeter fence. At 06:58 one individual was observed to call and to flush, due to the approach of the wildlife specialist, from the lower slope of the southeast bank of the Secondary Lagoon approximately 65 feet south of the east end of the north diagonal boom. This bird was observed to fly west-southwest at an estimated height of approximately 8-10 feet above the water surface. At 07:45 five individuals were observed to forage in the short, recently mown grass of the plain west of the Primary Lagoon. Around 08:32 one individual was observed to forage in the grass at the top of the west central bank of the Secondary Lagoon approximately 20 feet north of the propane cannon. Around 08:42 and 08:48 one individual was observed to sing from a tree in the bermed area proper. At 09:25 one individual was observed to fly east over the south end of the Secondary Lagoon at an estimated height of approximately 2-4 feet above the water surface. Seconds later a second individual-likely the mate- flew east over the Secondary

Tuesday, May 15, 2012

NOTES

(Continued)

Lagoon. This bird did not appear to land, but the first bird was observed to land on the Mylar ribbon cable at the top of the southeast bank of the Secondary Lagoon approximately 36 feet south of Station No. 2, and approximately 5 feet from the wildlife specialist, and to immediately sing. At 10:41 four individuals were observed to forage in the grass of the plain west of the Primary Lagoon. Around 10:49, and 20:23 three individuals were observed to forage in the grass of the plain west of the Primary Lagoon. Around 10:58 two individuals were observed to forage in the grass of the plain south of the East Sludge Pond. Around 11:05 one individual was observed to forage in the grass at the top of the west central bank of the Secondary Lagoon approximately 35 feet north of the propane cannon. At 13:18 one individual was observed to flush, due to the approach of the wildlife specialist, from the middle slope of the northwest bank of the East Sludge Pond under the net. This individual was observed to fly south under the net to the west central bank of the East Sludge Pond at the water's edge under the net, where it was observed to forage. Around 18:59 one individual was observed to rest on the wire adjacent to the utility pole atop the southwest bank of the Secondary Lagoon. Many of these individuals were viewed through the naked eye and/or binoculars at close range. No evidence of oil or discoloration, or matted feathers was observed on any of these individuals. It should be noted that oil would likely have been apparent on these birds, due to the yellow bill, orangish breast and belly, white undertail coverts and white tail spots which are characteristic of the plumage of this species.

- 25. Not a protected migratory bird.
- 26. Individuals were first heard vocalizing from a starling-blackbird night roost in the bermed area around 05:47 when approximately 50 birds were observed. At 06:04 a group of 6 individuals were observed to fly southeast over the bermed area and Secondary Lagoon at an estimated height of approximately 120-150 feet above ground surface. Around 08:48 one individual was observed to call from the airspace over the bermed area. Around 08:55 one individual was observed to fly southeast over the bermed area at an estimated height of approximately 80 feet above ground surface. At 10:18 two individuals were observed to fly south over the Secondary Lagoon at an estimated height of approximately 80-100 feet above ground surface. Around 11:05 one individual was observed to fly over the Secondary Lagoon. Around 11:14 three individuals were observed to forage in the grass of the plain south of the East Sludge Pond. At 13:54 one individual was observed to fly east over the Sludge Ponds at an estimated height of approximately 50 feet above ground surface. At 14:58 one individual was observed to fly northeast over the Secondary Lagoon at an estimated height of approximately 80-100 feet above ground surface. Around 20:07 two individuals were observed to fly west over the bermed area and Diked Lagoon.
- Around 07:26 one individual was observed to sing from the bermed area. Around 08:32 and 08:48 presumably a different individual was observed to sing from the bermed area. Around 09:56 presumably a third individual was observed to sing from the bermed area. Around 10:30 two individuals were observed to sing from the bermed area. Around 11:05 one individual was observed to call and to fly west over the south end of the Secondary Lagoon at an estimated height of approximately 5-8 feet above ground surface. Around 19:19 one individual was observed to sing from the bermed area. Around 20:07 two individuals were observed to sing from the bermed area. Around 21:06 one individual was observed to sing from the bermed area. Only the individual flying over the Secondary Lagoon was actually seen. This bird was viewed at relatively close range through the naked eye under excellent light conditions. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would like have been apparent due to the bright yellow underparts, underwing coverts, and outer tail feathers which characterize the plumage of this species.

Tuesday, May 15, 2012

NOTES

(Continued)

- Around 05:43, 05:47 and 10:51 one individual was observed to sing from the bermed area. Around 05:56, 08:55, 09:48, and 10:21 one individual was observed to sing from the central south outer slope of the Diked Lagoon. Around 07:26 one individual was observed to sing from the dogleg of the bermed area. At 08:28 presumably a different individual was observed to sing from the toe of the south end of the east outer slope of the Diked Lagoon. Around 19:19, 19:59, and 20:07 presumably a different individual was observed to sing from the bermed area.
- Around 05:47 an estimated 50 individuals were vocalizing from a starling-blackbird night roost in the bermed 29, area. Throughout the day, up to approximately 9 to 18 individuals were observed singing and calling from mostly the Phragmites and Typha in the bermed area. In addition, at several times during the day, including 19:49, one individual was observed to vocalize from the southeast bank of the Secondary Lagoon approximately 30 feet north of Station No. 2. Only sight observations of birds proximal to treatment ponds and lagoons are presented below. Around 06:40 one male was observed to call from atop the Primary Lagoon fence near the southeast corner. At 06:52 one male was observed to fly after and to harass a Great Blue Heron flying north over the center of the Secondary Lagoon. Around 07:15 two males were observed to fight on the ground at the top of the west central bank of the Diked Lagoon. Around 07:26 one individual was observed to fly over the Diked Lagoon. Around 07:54 one male was observed to fly north over the plain west of the Primary Lagoon at an estimated height of approximately 80-100 feet above ground surface. At 08:24 one individual was observed to call from a tree along the east perimeter fence opposite the southeast bank of the Secondary Lagoon. Around 08:32 one individual was observed to fly north over the Diked Lagoon at an estimated height of approximately 20 feet above the water surface. At 09:35 one male was observed to fly west over the south bank of the Primary Lagoon at an estimated height of approximately 4-8 feet above ground surface. Around 10:58 one individual was observed to forage in the grass adjacent to the east perimeter fence south of the southeast gate opposite the East Sludge Pond. Around 11:27 two males were observed to rest on the support cable for the netting over the north end of the Primary Lagoon- one towards the west end and one towards the east end.. At the same time one female was observed to fly north over the north end of the Primary Lagoon, apparently under the net. The bird was observed to fly up and exit the net at the west end. At 18:36 one male was observed to call from the light atop the utility pole at the top of the southwest bank of the Secondary Lagoon. Around 19:59 and 20:07 one individual was observed to call from a tree on the east outer slope of the Diked Lagoon. Around 20:07 one male was observed to fly west over the Diked Lagoon at an estimated height of approximately 3-4 feet above the water surface. Many of the males observed were prominently displaying their scarlet shoulder patches. No evidence of oil or discoloration, or matted feathers was observed on these males. It should be noted that oil would likely have been apparent on these birds due to the bright red shoulder patch and light yellowish trailing edge of the patch which characterizes the male plumage of this species.
- Around 05:47 an estimated 20 individuals were observed to vocalize from a starling-blackbird night roost in the bermed area. Throughout most of the day, up to approximately 10 to 12 individuals were observed to call mostly from the dogleg of the bermed area. Only sight observations of birds proximal to treatment ponds and lagoons are presented below. At 07:09 one individual was observed to fly south over the Secondary Lagoon at an estimated height of approximately 60-80 feet above the water surface. At 07:25 one individual was observed to fly west over the north bank of the Diked Lagoon at an estimated height of approximately 15-20 feet above ground surface. At 07:32 one individual was observed to fly west over the Diked Lagoon at an estimated height of approximately 15-20 feet above ground surface. At 08:11 one individual was observed to call from the light atop the utility pole at the top of the southwest bank of the Secondary Lagoon. At 08:28 one individual was observed to fly southwest over the north end of the Secondary Lagoon. Around 08:32 one individual was observed to fly northwest over the Diked Lagoon at an estimated height of approximately 15 feet above the water surface. Around 08:42 one individual was observed to fly northeast over the Diked Lagoon and bermed area at an estimated height of approximately 15 feet above the water surface. Around 11:14 one male was

Tuesday, May 15, 2012

NOTES

(Continued)

observed to fly west under the net at the East Sludge Pond, and to land on the lower slope of the east central bank of the pond under the net. The bird was then observed to forage along the east shoreline of the East Sludge Pond. The bird's bill was observed to be crammed full of dragonflies, which the bird apparently was gathering once they emerged. Approximately 30 seconds later the bird was observed to fly west and to briefly land on the discharge pipe under the net. The bird was then observed to fly up and to hit the underside of the net, and then to fly to the lower slope of the west bank where it continued to forage at the water's edge, making almost a complete circuit around the East Sludge Pond. Around 11:35 presumably the same male was observed still foraging for dragonflies at the water's edge of the East Sludge Pond under the net. The bird's bill again was observed to be filled with dragonflies. The male was observed to stand in the water once or twice at the east central side, gleaning emerging dragonflies. The bird disappeared around 11:40 presumably flying out from under the net. At 11:46 one individual was observed to fly southeast over Station No. 1 and the East Sludge Pond and to land atop the east central side of the net over the East Sludge Pond. Within a second of landing the bird was observed to hop and fly in short forays for several seconds, apparently foraging, atop the net. The bird was observed to continue to the south central side of the net, and then to drop down through the net, and to fly a short distance to the water's edge at the south central side of the pond under the net. The bird was then observed to forage at the water's edge moving west along the perimeter of the pond. At 13:18 presumably the same individual was observed to forage on the lower slope of the northeast bank of the East Sludge Pond under the net, its bill filled with dragonflies. Seconds later the bird was observed to climb up the northeast bank and to fly out from under the net at the northeast corner. An 8 x 12 inch hole in the net was subsequently found here. At 13:35 a different individual, possibly a female, was observed to fly southwest over the east side of the East Sludge Pond and to land on the south central bank of the East Sludge Pond at the edge of the net. Several seconds later the bird was observed to walk onto the net and to fly a short distance and to land on the net, apparently foraging for insects. As soon as the bird landed on the net it was observed to momentarily get its foot tangled in the net. After freeing itself, the bird was observed to fly off the net and to forage in the grass southeast of the East Sludge Pond. At 14:54 one individual was observed to rest on the electrical wire over the north end of the Secondary Lagoon. Around 19:43 one individual was observed to fly east over the east perimeter fence opposite the East Sludge Pond. The male foraging under the net was viewed at close to relatively close range through both the naked eye and binoculars. No matting of plumage was observed on this bird.

- 31. At 07:45 one individual was observed to call from the airspace over the Primary Lagoon.
- 32. At 05:43 and around 07:15 one individual was observed to sing from the bermed area proper. At the same time a second individual, a male, was observed to fly north over the Diked Lagoon at an estimated height of approximately 15-20 feet above the water surface. Around 08:48, 10:21, 10:30, and 19:59 one individual was observed to sing from the bermed area. Around 09:56 two individuals were observed to call from the bermed area. Around 19:12 and 19:19 two individuals were observed to sing from the bermed area. Only one individual was seen, the male flying over the Diked Lagoon. This bird was viewed only through the naked eye at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on this individual due to the white wing bars, white edges of the secondaries, and the bright orange breast, belly vent, and corners of the tail which characterize the alternate plumage of the male of this species.
- 33. At 07:03 two individuals were observed to call from the airspace over the Secondary Lagoon. At 07:11 one individual was observed to call from the airspace over the Secondary Lagoon. Around 08:02 one individual was observed to fly south-southwest over the south end of the Secondary Lagoon and to land atop the west perimeter fence near the West Sludge Pond. At 08:24 one male was observed to fly east over the east bank of the Secondary Lagoon and the lagoon itself at an estimated height of approximately 6-8 feet above ground

Tuesday, May 15, 2012

NOTES

(Continued)

surface. Around 08:32 two individuals were observed to call and to fly northeast over the Diked Lagoon. Around 08:55 one individual was observed to call from the airspace over the Diked Lagoon. At 09:23 one individual was observed to call from the airspace over the south end of the Secondary Lagoon and the clarifiers. Around 09:56 one individual was observed to call from the airspace over the bermed area. Around 10:08 one individual was observed to call from the airspace over the Secondary Lagoon. At 10:21 one individual was observed to call from the airspace over the Diked Lagoon. Around 10:49 two individuals were observed to call from the airspace over the Primary Lagoon. At 13:32 one individual was observed to call and to fly east over the Sludge Ponds. At 15:13 one individual was observed to call from the airspace over the Diked Lagoon and bermed area.

ANIMAL SIGN OBSERVED

1	Туре:	Species:	☐ certain	#:		fresh	☐ soiled
	feather	CANADA GOOSE	□ probable	_ 1	L	relatively fresh	appears to be oiled
			possible	_		relatively old	no oil apparent
	Location: to	p of northeast bank of the East	☐ found before	<u> </u>		old	☐ damaged
	Sludge Pond	l, approximately 15 feet south of	Status: NA			very old	From 1 individual(s)
	northeast co	mer of the East Sludge Pond and] residual	
	approximate	ly 1 foot east of guardrail	Based on: NA				Behavior:
							unknown
	Photo #: Si	zing Basis:					
		ch ruler					
	Additional Si	gn Present: none	Notes Contain		. 1	L	
	Additional of	gir reseit. Hone	Note: Contour,	possik	ЭΙУ	breast feather.	Gray with black patch
_	<u> </u>	In .	near tip.	or below the beautiful and the	_	- Charles and the second secon	
2	Type:	Species:	certain	#;		fresh	soiled
	dropping	AMERICAN ROBIN	probable	4	L	relatively fresh	appears to be oiled
	Location: to	o of south bank of the East Sludge	possible found before	-		relatively old	no oil apparent
	Pond approx	ximately 5 feet southeast of deck of	Status: NA	<u> </u>	丰		damaged
	control gate	dinately 5 leet southeast of deck of	Status, NA		+	very old residual	From 1 individual(s)
	Contion gate		Based on: NA		<u> </u>	i sesiduai	Dahaulan
			Dased on. IVA				Behavior:
	Photo #: Siz	zing Basis:	_				standing
		ch ruler					
		gn Present: none	NI-I-				
	Additional of	gn riesent. Hone	Note:				
3	Tymal	Charina		T	-		
3	Type:	Species:	☐ certain ☑ probable	#:		fresh	soiled
	dropping	AMERICAN ROBIN	possible	2		relatively fresh relatively old	appears to be oiled
	Location: tor	of control gate, under net	found before	1	H	old	no oil apparent
	Location: top	or denitor gate, under her	Status: NA	i		very old	damaged
			Otatas. NA			residual	From 1 individual(s)
			Based on: NA				Behavior:
							standing
	Photo #: Siz	zing Basis:					otaniang .
	5 no	ne – location under net					
	Additional Sig	gn Present: none	Note:				
4	Туре:	Species:	☐ certain	#:		fresh	soiled
		opecies.	I III CCITAIII			walational attach	
		•	probable	~6		resauvely fresh	
	dropping	AMERICAN ROBIN	☐ probable ☐ possible			relatively fresh relatively old	appears to be oiled no oil apparent
	dropping Location: on	AMERICAN ROBIN control gate lying on ground at the	probable possible found before			relatively old old	
	dropping Location: on top of north c	AMERICAN ROBIN control gate lying on ground at the tentral bank of the East Sludge Pond	☐ probable ☐ possible			relatively old old very old	appears to be oiled no oil apparent damaged
	dropping Location: on top of north c	AMERICAN ROBIN control gate lying on ground at the	☐ probable ☐ possible ☐ found before Status: NA			relatively old old	appears to be oiled no oil apparent damaged from 1 individual(s)
	dropping Location: on top of north c	AMERICAN ROBIN control gate lying on ground at the tentral bank of the East Sludge Pond	probable possible found before			relatively old old very old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	dropping Location: on top of north c opposite cont	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station	☐ probable ☐ possible ☐ found before Status: NA			relatively old old very old	appears to be oiled no oil apparent damaged from 1 individual(s)
	dropping Location: on top of north c opposite conf	AMERICAN ROBIN control gate lying on ground at the entral bank of the East Sludge Pond trol gate station zing Basis:	☐ probable ☐ possible ☐ found before Status: NA			relatively old old very old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	Location: on top of north c opposite conf	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station zing Basis:	☐ probable ☐ possible ☐ found before Status: NA Based on: NA			relatively old old very old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	Location: on top of north c opposite conf	AMERICAN ROBIN control gate lying on ground at the entral bank of the East Sludge Pond trol gate station zing Basis:	☐ probable ☐ possible ☐ found before Status: NA			relatively old old very old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
-	Location: on top of north c opposite conf Photo #: Siz none NA Additional Sig	AMERICAN ROBIN control gate lying on ground at the entral bank of the East Sludge Pond trol gate station zing Basis:	probable possible found before Status: NA Based on: NA Note:	~6		relatively old old very old residual	☐ appears to be oiled☐ no oil apparent☐ damaged☐ From 1 individual(s)☐ Behavior: standing☐
5	Location: on top of north copposite confinence. Photo #: Size none NA Additional Signature.	AMERICAN ROBIN control gate lying on ground at the entral bank of the East Sludge Pond trol gate station ting Basis: control gate research and the entral bank of the East Sludge Pond trol gate station	☐ probable ☐ possible ☐ found before Status: NA Based on: NA Note:	#:		relatively old old very old residual	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled
5	Location: on top of north copposite confinence. Photo #: Size none NA Additional Signature.	AMERICAN ROBIN control gate lying on ground at the entral bank of the East Sludge Pond trol gate station zing Basis:	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable	~6		relatively old old very old residual fresh relatively fresh	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled
5	Location: on top of north c opposite conf Photo #: Siz none NA Additional Sig Type: nest	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station zing Basis: gn Present: none Species: EASTERN COTTONTAIL	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible	#:		relatively old old very old residual fresh relatively fresh relatively old	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled □ no oil apparent
5	Location: on top of north c opposite conf Photo #: Siz none NA Additional Sig Type: nest Location: mid	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station ging Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible □ found before	~6 #: 1		relatively old old very old residual fresh relatively fresh relatively old old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent damaged
5	dropping Location: on top of north copposite conf Photo #: Siznone NA Additional Sig Type: nest Location: mic Secondary La	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station zing Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the agoon, approximately 15 feet west of	probable possible found before Status: NA Based on: NA Note: certain probable possible found before Status: probable	#: 1		relatively old old very old residual fresh relatively fresh relatively old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent damaged From NA
5	dropping Location: on top of north copposite conf Photo #: Siznone NA Additional Sig Type: nest Location: mic Secondary La	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station ging Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible □ found before Status: probabl recently vacate	#: 1		relatively old old very old residual fresh relatively fresh relatively old old very old	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled □ no oil apparent □ damaged From NA individual(s)
5	dropping Location: on top of north copposite conf Photo #: Siznone NA Additional Sig Type: nest Location: mic Secondary La	AMERICAN ROBIN control gate lying on ground at the sentral bank of the East Sludge Pond trol gate station zing Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the agoon, approximately 15 feet west of	probable possible found before Status: NA Based on: NA Note: certain probable possible found before Status: probable	#: 1		relatively old old very old residual fresh relatively fresh relatively old old very old	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled □ no oil apparent □ damaged From NA individual(s) Behavior:
5	dropping Location: on top of north copposite conference of the co	AMERICAN ROBIN control gate lying on ground at the entral bank of the East Sludge Pond trol gate station zing Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the agoon, approximately 15 feet west of y and 12 feet from water's edge	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible □ found before Status: probabl recently vacate	#: 1		relatively old old very old residual fresh relatively fresh relatively old old very old	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled □ no oil apparent □ damaged From NA individual(s)
5	dropping Location: on top of north copposite conference of the co	AMERICAN ROBIN control gate lying on ground at the central bank of the East Sludge Pond trol gate station ging Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the agoon, approximately 15 feet west of and 12 feet from water's edge	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible □ found before Status: probabl recently vacate	#: 1		relatively old old very old residual fresh relatively fresh relatively old old very old	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled □ no oil apparent □ damaged From NA individual(s) Behavior:
5	dropping Location: on top of north copposite confinence Photo #: Siz none NA Additional Signature Confinence Type: nest Location: mic Secondary La OMI mop tray Photo #: Siz 6, 7 no	AMERICAN ROBIN control gate lying on ground at the central bank of the East Sludge Pond trol gate station ging Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the agoon, approximately 15 feet west of and 12 feet from water's edge ging Basis: ne	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible □ found before Status: probabl recently vacate Based on: flies	#: 1 y d preser		relatively old old very old residual fresh relatively fresh relatively old old very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent damaged From NA individual(s) Behavior: NA
5	dropping Location: on top of north copposite confinence Photo #: Siz none NA Additional Signature Confinence Type: nest Location: mic Secondary La OMI mop tray Photo #: Siz 6, 7 no	AMERICAN ROBIN control gate lying on ground at the central bank of the East Sludge Pond trol gate station ging Basis: gn Present: none Species: EASTERN COTTONTAIL d-slope of southwest bank of the agoon, approximately 15 feet west of and 12 feet from water's edge	□ probable □ possible □ found before Status: NA Based on: NA Note: □ certain □ probable □ possible □ found before Status: probabl recently vacate Based on: flies Note: Approxim	#: 1 y d preser		relatively old old very old residual fresh relatively fresh relatively old old very old residual ies around nes	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: standing □ soiled □ appears to be oiled □ no oil apparent □ damaged From NA individual(s) Behavior:

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	ricanional Oly	pri reacht, tione	INOLE. INIOFE EXC	avated	soil at opening.	
	none NA	n Present: none	Noto: Mara s	ا- <u>ـ اسر</u> ریم	l pall at an enter	
		ing Basis:				1 50 1
			survey	ance m	odified since last	Behavior: NA
	pole		Deced		residual	individual(s)
	Lagoon, appr	oximately 15 feet northwest of utility	Status: active		very old	From NA
	Location: mid	d-slope of northeast bank of Primary	found before		☐ relatively old ☐ old	no oil apparent damaged
	burrow	WOODCHUCK	probable possible	1	relatively fresh	appears to be oiled
10		Species:	☐ certain	#:	☐ fresh	soiled
			HOLE.			
		n Present: none	Note:			
	Photo #: Siz	ing Basis:	during Septemi	per 201	11 survey.	
	mhata # To:		burrow entranc	e at co	ncrete slab once	NA
	y	_	Based on: Woo	dchuc		Behavior:
	Secondary La	agoon	active	y	residual	individual(s)
		it top of northeast bank of		V	old very old	☐ damaged From NA
		der southwest foundation of	possible		relatively old	no oil apparent
		WOODCHUCK	⊠ probable	3	relatively fresh	appears to be oiled
9	Type:	Species:	☐ certain	#:	│	☐ soiled
			NOIG.			:
		n Present: none	Note:			1
	none NA					
	Photo #: Siz	ring Basis:	entrance			NA
			Based on: veg	etation	growing at	Behavior:
	northeast of e	east end of north diagonal boom	inactive		residual residual	individual(s)
	Secondary La	agoon, approximately 20 feet	Status: probab	y	∨ery old	From NA
	Location: mid	d-slope of east central bank of	☑ found before	1	old	damaged
	burrow	WOODCHUCK	probable possible	1	☐ relatively fresh☐ relatively old	appears to be oiled no oil apparent
8	Туре:	Species:	☐ certain	#:	fresh	soiled
				Officeral incomensus	and the second s	and the second of the second o
	Additional Sig	gn Present: none	Note:			
	none NA	1				
ŀ	Photo #: Siz	zing Basis:	-			Stantung
			Based on: NA			Behavior: standing
			Paged and MA		☐ residual	
	approximatel	y 2 feet from north end	Status: NA		very old	From 1 individual(s)
	Location: top	o of guardrail at Station No. 2,	found before		old old	no oil apparent damaged
	dropping	RED-WINGED BLACKBIRD	☐ probable ☐ possible	3	☐ relatively fresh ☐ relatively old	
7	Type:	Species:	☐ certain	#:	fresh	soiled
		gn Present: none	Note:			
	none NA					
	Photo #: Siz	zing Basis:	entrances			NA
				appare	nt modification of	
	southeast co	rner of Secondary Lagoon	inactive		☐ residual	individual(s)
	belt skimmer	at the top of the bank near	Status: probab	ly	☑ very old	From NA
	Location: ap	proximately 6-8 feet southwest of	☐ found before	-	old	damaged
	burrow	WOODCHUCK	probable possible	2	☐ relatively fresh☐ relatively old	☐ appears to be oiled☐ no oil apparent
6	Type:	Species:	certain	#:	fresh	soiled

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	lype:	Species:	⊠ certain	#;		fresh	soiled
	scat	CANADA GOOSE	probable probable	1		relatively fresh	appears to be oiled
			possible		\boxtimes	relatively old	no oil apparent
	Location: top	of west central bank of the Primary	☐ found before			old	damaged
		oximately 40 feet northeast of TVT	Status: NA			very old	From 1 individual(s)
	bridge					residual	
	!		Based on: NA		-		Behavior:
							standing
	Photo #: Siz	zing Basis:	-				o tarraining
		ch ruler					
		gn Present: none	NI-4				
	Additional Sig	gn Fresent. Hone	Note:				
12	Type:	Species:	☐ certain	#:		fresh	Soiled
	dropping	AMERICAN ROBIN	☐ probable	3		relatively fresh	appears to be oiled
			possible possible			relatively old	no oil apparent
		st end of TVT bridge and ground at	found before	L		old	☐ damaged
	same		Status: NA				From 1 individual(s)
			Based on: NA			residual	
			Dased OII. NA				Behavior:
	Photo #: Siz	ing Basis:	-				standing
	none NA						
		n Present: none	Note:				
	r iaanional Oig	Tresent none	NOIC.				
13	Type:	Species:	П certain	#:		fresh	I ☐ soiled
		EUROPEAN STARLING	probable	#. ~8	H	relatively fresh	appears to be oiled
	aropping	EURUPEAN STARLING	possible	-0	X	relatively old	no oil apparent
	Location: get	otextile on east bank of the Primary	found before	İ	H	old	damaged
	Lagoon, appr	oximately 4-6 feet south of TVT	Status: NA		\Box	very old	From 1 individual(s)
		,		1		residual	- rom r maividual(s)
	bridge						1
	bridge		Based on: NA		<u> </u>	10010001	Behavior:
			Based on: NA		ليبا	10010001	Behavior: standing
	Photo #: Siz	ing Basis:	Based on: NA				1
	Photo #: Siz						1
	Photo #: Siz		Based on: NA Note:				1
	Photo #: Siz none NA Additional Sig	n Present: none	Note:				1
	Photo #: Siz none NA Additional Sig	In Present: none Species:	Note: ☐ certain	#:		fresh	standing soiled
	Photo #: Siz none NA Additional Sig	n Present: none	Note: ☐ certain ☐ probable			fresh relatively fresh	standing soiled appears to be oiled
	Photo #: Siz none NA Additional Sig Type: track	n Present: none Species: GREAT BLUE HERON	Note:			fresh relatively fresh relatively old	standing soiled appears to be oiled no oil apparent
	Photo #: Siz none NA Additional Sig Type: track Location: top	In Present: none Species: GREAT BLUE HERON of south weir at south end of	Note: ☐ certain ☐ probable ☐ possible ☐ found before	10		fresh relatively fresh relatively old old	standing soiled appears to be oiled no oil apparent damaged
	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago	n Present: none Species: GREAT BLUE HERON	Note:	10		fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent
	Photo #: Siz none NA Additional Sig Type: track Location: top	In Present: none Species: GREAT BLUE HERON of south weir at south end of	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	10		fresh relatively fresh relatively old old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s)
	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago	In Present: none Species: GREAT BLUE HERON of south weir at south end of	Note: ☐ certain ☐ probable ☐ possible ☐ found before	10		fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	Photo #: Siz none NA Additional Sig Type: track top Primary Lago west end	In Present: none Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	10		fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s)
	Photo #: Siz none NA Additional Sig Type: track top Primary Lago west end	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis:	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	10		fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	Photo #: Siz none NA Additional Sig Type: track top Primary Lago west end Siz 11 nor	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis:	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	10		fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz non Additional Sig	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none	Note: certain probable possible found before Status: NA Based on: NA	10		fresh relatively fresh relatively old old very old residual	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz 11 non Additional Sig Type:	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne In Present: none Species:	Note: certain probable possible found before Status: NA Based on: NA Note: certain	10 .		fresh relatively fresh relatively old old very old residual	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz 11 non Additional Sig Type:	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none	Note: certain probable possible found before Status: NA Based on: NA Note: certain probable	10 .		fresh relatively fresh relatively old old very old residual	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz 11 non Additional Sig Type: track	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER	Note: certain probable possible found before Status: NA Based on: NA Note: certain	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz 11 non Additional Sig Type: track	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne In Present: none Species:	Note: certain probable possible found before Status: NA Based on: NA Note: certain probable possible possible possible	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent damaged
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz non Additional Sig Type: track Location: top	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER	Note: certain probable possible found before Status: NA Based on: NA Note: certain probable possible found before Status: NA	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent damaged From 1 individual(s)
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz non Additional Sig Type: track Location: top	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER	Note: certain probable possible found before status: NA Based on: NA Note: certain probable possible found before	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) soiled appears to be oiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz 11 nor Additional Sig Type: track Location: top of west end	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER of baffle, approximately 2 feet east	Note: certain probable possible found before Status: NA Based on: NA Note: certain probable possible found before Status: NA	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing soiled appears to be oiled no oil apparent damaged From 1 individual(s)
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz 11 non Additional Sig Type: track Location: top of west end	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER of baffle, approximately 2 feet east	Note: certain probable possible found before Status: NA Based on: NA Note: certain probable possible found before Status: NA	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) soiled appears to be oiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz non Additional Sig Type: track Location: top of west end Photo #: Siz non Additional Sig	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER of baffle, approximately 2 feet east	Note: certain probable possible found before status: NA Based on: NA Certain probable possible found before found before status: NA Based on: NA	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) soiled appears to be oiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
15	Photo #: Siz none NA Additional Sig Type: track Location: top Primary Lago west end Photo #: Siz non Additional Sig Type: track Location: top of west end Photo #: Siz non Additional Sig	Species: GREAT BLUE HERON of south weir at south end of on, approximately 4-6 feet east of ing Basis: ne in Present: none Species: SPOTTED SANDPIPER of baffle, approximately 2 feet east	Note: certain probable possible found before Status: NA Based on: NA Note: certain probable possible found before Status: NA	#: 18		fresh relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	standing soiled appears to be oiled no oil apparent damaged From 1 individual(s) soiled appears to be oiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:

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16	Type:	Species:	certain	#:	<u></u>		soiled
	dropping	SPOTTED SANDPIPER	probable	2	\boxtimes	relatively fresh	appears to be oiled
			possible]		relatively old	no oil apparent
	Location: gro	ound at lower slope of northwest	☐ found before			old	☐ damaged
	Primary Lago	oon, approximately 8 feet south of	Status: NA			very old	From 1 individual(s)
ĺ	lioiot		Based on: NA		<u> </u>	residual	D-1
l			baseu on, no				Behavior: standing
1	Photo #: Siz	zing Basis:	-				Standing
	none NA						
	Additional Sig	gn Present: none	Note: Approxim	rately 1	fo	ot west of neot	extile. Individual
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	observed nearb	ον durir	ng:	Survey.	lextile. Individual
17	1 - 1	Species:	certain	#.		fresh	☐ soiled
	1	RED-WINGED BLACKBIRD	probable	1		relatively fresh	appears to be oiled
	1		⊠ possible	۱ ۱		relatively old	no oil apparent
l į	Location: top	of steel headwall, approximately 5	found before			old	damaged
1	feet nortneas	t of skimmer at junction of north and	Status: NA	}	Щ	very old	From 1 individual(s)
	south diagona	al booms	N/A		Ц	residual	
1	1		Based on: NA				Behavior:
1	Pu-1-4. Ci-	* ***	-				standing
	Photo #: Siz	ring Basis:					
		gn Present: none	Note:				
	Additional O.S	III Fresent, none	Note:				
18	Type:	Species:	i I∏Hain	·,		Annoning to the second different contractions and announced and announced and announce	
10	1 ' '	•	☐ certain ☐ probable			fresh	soiled
!	dropping	RED-WINGED BLACKBIRD	☐ probable ☐ possible	1		relatively fresh relatively old	appears to be oiled no oil apparent
1	Location: top	of steel headwall, approximately 6	found before				no oil apparent damaged
1	feet southwes	st of skimmer at junction of north and				very old	☐ damaged From 1 individual(s)
1	south diagona		Status. 1.,	1		residual	From I individual(o)
	SOME L	ii booms	Based on: NA		<u> </u>	ICOMUL.	Behavior:
	l .	•	2000				perched above on
۱	·	· ·	1				
	Photo #: Siz	ing Basis:					
	Photo #: Siz						skimmer light
	none NA	·	Note: Splatter p	aftern			
	none NA		Note: Splatter p	attern.			
	none NA Additional Sig	·	☐ certain	attern. #:		fresh	
19	none NA Additional Sig Type:	n Present: none	☐ certain	#: 8		relatively fresh	skimmer light soiled appears to be oiled
19	none NA Additional Sig Type: track	n Present: none Species: KILLDEER	☐ certain ☐ probable ☑ possible	#: 8		relatively fresh relatively old	skimmer light soiled appears to be oiled no oil apparent
19	none NA Additional Sig Type: track Location: eas	n Present: none Species: KILLDEER st side of west road to Diked	☐ certain ☐ probable ☑ possible ☐ found before	#: 8		relatively fresh relatively old old	skimmer light soiled appears to be oiled no oil apparent damaged
19	none NA Additional Sig Type: track Location: eas Lagoon, appro	on Present: none Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end	☐ certain ☐ probable ☑ possible	#: 8		relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From
19	none NA Additional Sig Type: track Location: eas	species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area	☐ certain ☐ probable ☑ possible ☐ found before Status: NA	#: 8		relatively fresh relatively old old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro	species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area	☐ certain ☐ probable ☑ possible ☐ found before	#: 8		relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b	species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area	☐ certain ☐ probable ☑ possible ☐ found before Status: NA	#: 8		relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz	species: KILLDEER St side of west road to Diked oximately 25 feet north of south end permed area	☐ certain ☐ probable ☑ possible ☐ found before Status: NA	#: 8		relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl	species: Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler	☐ certain ☐ probable ☑ possible ☐ found before Status: NA Based on: NA	#:		relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl	species: Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler	☐ certain ☐ probable ☑ possible ☐ found before Status: NA	#:		relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig	species: Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none	☐ certain ☐ probable ☑ possible ☐ found before Status: NA Based on: NA Note: Impressio	#: 8	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	relatively fresh relatively old old very old residual	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior:
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig	species: Species: KILLDEER St side of west road to Diked oximately 25 feet north of south end permed area sing Basis: h ruler in Present: none Species:	☐ certain ☐ probable ☑ possible ☐ found before Status: NA Based on: NA Note: Impressio ☑ certain	#: 8 ns in di	□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□	relatively fresh relatively old old very old residual	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior:
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig	species: Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior:
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track	Species: KILLDEER St side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled appears to be oiled no oil apparent
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end eermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old	skimmer light soiled
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas Lagoon, appro	species: KILLDEER St side of west road to Diked oximately 25 feet north of south end eermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled appears to be oiled no oil apparent damaged damaged From
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end ermed area	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before Status: NA	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas Lagoon, appro	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end ermed area	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	skimmer light soiled
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end ermed area	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before Status: NA	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
19	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis:	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before Status: NA	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
20	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis:	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before Status: NA Based on: NA	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
20	none NA Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b Photo #: Siz 16 incl Additional Sig Type: track Location: eas Lagoon, appro of dogleg of b	Species: KILLDEER st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis: h ruler in Present: none Species: CANADA GOOSE st side of west road to Diked oximately 25 feet north of south end ermed area ing Basis:	□ certain □ probable □ possible □ found before Status: NA Based on: NA Note: Impressio □ certain □ probable □ possible □ found before Status: NA	#: 8 ns in di #: ~6	irt.	relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	skimmer light soiled appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)

ANIMAL SIGN OBSERVED

21	Type:	Species:	152			
 	7.		⊠ certain	#:	fresh	soiled
Ì	track	CANADA GOOSE	probable	~20	relatively fresh	
			☐ possible	_	□ relatively old	no oil apparent
	Location: in	dirt on east side of road west of the	found before		old	☐ damaged
1	Diked Lagoo	n, approximately 30-40 feet	Status: NA	/	very old	_ From 1-2
	northwest of	southwest corner of Diked Lagoon	Ciatao. 147		residual	
l					☐ residual	individual(s)
			Based on: NA			Behavior:
ı						walking
	Photo #: Si	zing Basis:				
	none N					
l	Additional S	gn Present: none	Note:			
		A second				
22	Туре:	Species:	⊠ certain	#:	☐ fresh	soiled
l	scat	RED FOX	☐ probable	3	relatively fresh	appears to be oiled
ĺ			possible	1	☐ relatively old	no oil apparent
	Location: so	uth end of plain south of the Primary	☐ found before	1	old	damaged
	Lagoon	, remark the state of the state	Status: NA	٠	very old	From 1 individual(s)
			Otatao. 117		residual	Trioiii i individual(s)
			Based on: NA		□ residual	Dahada
			Dased off. NA			Behavior:
	Photo #: Si	zing Basis:	4			unknown
		ch ruler				
	Additional Si	gn Present: none	Note:			
23	Type:	Species:	⊠ certain	#;	☐ fresh	soiled
			probable	~2	relatively fresh	
l	scat	RED FOX	possible	~2	N selatively itest	appears to be oiled
	Location: no	ar south end of plain west of the	found before	l	relatively old	no oil apparent
	Primary Lago	ar south end of plain west of the		<u> </u>	old	☐ damaged
	rimary Lage	OH	Status: NA		very old	From 1 individual(s)
			D		residual	
			Based on: NA			Behavior:
						unknown
		zing Basis:				
	none NA	4				
	Additional Signature	gn Present: none	Note:			
	Type:	Species:	☐ certain	44.	T16	
	. , pc.	оремез.	probable	#:	fresh	soiled
			probable		relatively fresh	appears to be oiled
	Location:				relatively old	no oil apparent
	Location.		found before		old	☐ damaged
			Status:		☐ very old	From
					☐ residual	individual(s)
			Based on:			Behavior:
	Photo #: Siz	ring Basis:				!
		3				İ
	Additional Sig	in Present	Note:			
	, additional Oil	gir i rederit.	NOTE.			
0000000000	Туре:	Species:	☐ certain	и. Т	[] f1-	
	турс.	opecies.		#:	fresh	soiled
			probable		relatively fresh	appears to be oiled
	Locations		possible	ļ.	relatively old	no oil apparent
	Location:		found before		old	☐ damaged
			Status:		very old	From
			<u> </u>		☐ residual	individual(s)
			Based on:			Behavior:
					j	:\u0101.
	Photo #: Siz	ing Basis:				
		y 2000.				
	V 44:1:41 C.					
	Additional Sig	gu riesent.	Note:			
	The state of the s		Markey superior (Association Contract C			

APPENDIX B

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
124	2	2		Near Primary Lagoon, near		Overflew birds flew away and
				diked Lagoon, near Secondary		then come back or flew to
				Lagoon, and on Gravel Road		another pond after horn blasts.

^{*}During dawn and dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	31 days	31 days	Killdeers	None

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	Report of Recoverable Oil Not Captured (by Skimmers)										
Primary	Secondary	Sludge	Diked								
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments						
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.						

	SRWWTP - Wildlife Activity Log									
Date 2 <u>51</u> 2	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)		
5/1	7,00 AM	N	N	N	N	0	N	K		
5/1	9:00 Am	N	\mathcal{N}_{\perp}	N	Λ /	0	N	K		
5/1	1:00 1:00	\mathcal{N}	N	~	N	0	N	120		
5/,	7:00 12.00	N,	\mathcal{N}	N	N.	0	N	X		
5/2	70Am	N	N	1	\mathcal{N}	0		10		
5/2	9. Am	\sim	N	N	\mathcal{N}	0	\mathcal{N}'	18C		
5/2	1.00 pm	\mathcal{N}	N	N	N	0	N	80		
5/2	7:00M	\mathcal{N}	N	N_{\perp}	N	0	N	80		
5/3/3	7:00 AM	\sim	\mathcal{N}	\mathcal{N}	_//	0	N	R		
5/3	9:00 Am	N	\mathcal{N}	N	\mathcal{N}	0	\mathcal{N}	C		
5/3	1. " pm	N	N	N	N	0	·N	180		
5/3	7.00	N	No.	$N \perp$	N	0	W	D		
5/4	720 AM	\mathcal{N}	\mathcal{N}	\mathcal{N}	N	0	N	VC		
5/4	9:06 AM	\sim	\sim	\mathcal{N}	\sim	0	\sim	RG		
5/4	1:00 PM	\mathcal{N}	\sim	\sim	\mathcal{N}	Ò	\sim	RC		
5 1	9:00 By	KILLDEER	4	И	KL	4	No EFFECT	<i>M</i> -		
5 5	$\mathcal{M}^{\infty, \mathbb{S}}$	WILL DEEP	Y	N	P	2	No ETIFLY	财		
5/5	9:00 AM	\sim	\sim	\sim	\sim	0	econdary lagoon: SL = near Sludge r	RG		

Location Code: $\mathbf{B} = \text{near Bermed area}$; $\mathbf{D} = \text{near Diked lagoon}$; $\mathbf{P} = \text{near Primary lagoon}$; $\mathbf{S} = \text{near Secondary lagoon}$; $\mathbf{SL} = \text{near Sludge ponds}$.

FORM SRWWTP 1.03 DATE: 2/24/2001

,			S	RWWTP -	- Wildlife Activi	ity Log		
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
5/5	1100 PM	N	\mathcal{N}	\mathcal{N}	N	0	N	RC
55	J. Sm	N	N	N	X	0	N	
56	6°94M	N	7	No-	N	0	N	7
5 C	9:00 AM	N	N	\sim	\sim	0	N	RCo
56	1:00 84	N	\mathcal{N}	\mathcal{N}	N	0	N	RE
56	Jan JW	\mathcal{M}	N	N	N	0	N	
29	6 of W	V	N	7	N	0	N	
27	7:00 AM	\mathcal{N}	N	N	N	0	\mathcal{N}	RC
27	1:00 PM	\sim	N	\sim	N	0	. N	RE
27	9:00	N	2	N	N	0	N	M.
28	6 xoftm	N	N	N	N	0	N	M-
5/8	9:00 AM	\sim \sim	N	N	N	0	N	2.6
50	1:00 PM	\sim	\sim	\mathcal{N}	N	0	N	16
5/8	9.9m	\sim	N	N	N	0	n/	100
5/9	7:00m	N	N	N	N	0	1/	100
29	MA [∞] .F	W	N	N	N		N	14
29	Ing Pin	N	N	N	N	O	N	T.
S/9	9:0gm	= near Bermeil area: D	N	N	N	0	N	Re

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge pends.

FORM SRWWTP 1.03 DATE: 2/24/2001

			S	RWWTP	- Wildlife Activi	ity Log		· · · · · · · · · · · · · · · · · · ·
Date	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
5/10	7:00 AM	N	N	\sim	N	0	N	RO
5/10	9:00 9:Am	N	N	N	N	0	N	ke
5/10	1.00 1. pm	N	N	N	N	0	N	180
5/10	7.00	N	N	N	\mathcal{N}	0	N,	180
5/11	7:00 AM	N	N	N	N	0	N	RP
5/11	9:00 AM	N	N	N	N	0	N	189
5/11	1.00 1. pm	N	N	N	N	D	N	X
5/11	7:00	N	M	Ν	N	0	N	120
5/12	7:00 A77	\mathcal{N}	N	_n/	n	0	N	100
5/12	9.60 Am	2	~	\sim	N	0	N	k
5 12	1. pm	λ	N	Ν	N	0	N	1 Sc
5/12	7:00/1	N	N	N	N	ω	\sim	1/2c
5/13	P.00/W	N	N	N	N	0	N	1
3/13	9:00 AM	\mathcal{N}	ν)	\mathcal{N}	\sim	0	\mathcal{N}	RG
5 13	1:00 /14	N	\sim	\sim \sim	\mathcal{N}	0	\mathcal{N}	RC
3	6:00 M	N	N	N	N	0	N	H
3/14/	6:00/W	N	K	N	N	0	N	St
S/14 Location (9:00 AM	= near Bermed area: D	\mathcal{N}	\mathcal{N}	\sim \sim	٥	\mathcal{N}	R-6

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge pends.

FORM SRWWTP 1.03 DATE: 2/24/2001

·	SRWWTP - Wildlife Activity Log										
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)			
211	1:00 PM	\mathcal{N}	\sim	N	\sim	0	\mathcal{N}	RC			
2 14	9:00pm	N	N	N	N	O	N	St			
3 15	P.004W	N	N	N	N	0	N	2			
	9:00 AM	N	\mathcal{N}	<i>N</i>	N	0	N	RC			
	1:00 PM	\mathcal{N}	N	\mathcal{N}	N	0	\mathcal{N}	ZC			
2 3	9:39M	7	N	N	N	0	X	H			
	P.wyw	N	N	N	K	0	N	J.			
	9:00 AM	λ	\sim	N	N	0	N	RE			
5/16	1:00 14	\sim	\mathcal{N}	N	\mathcal{N}	8	N	RC			
5/16	9:09	\mathcal{N}	N	N	N	0	\mathcal{N}_{i}	10			
5/17	7:00 AM	\mathcal{N}	N	N	N	0	N	10			
5/17	9: Am	N	N	N	N	0	N	B			
5/17	1:00 1:00	Ν	N	N	V	0	N	8			
5/17	7:00m	N	\sim	\mathcal{N}	. N	0	\mathcal{N}	2			
5/18	7:00 Am	N	N	\mathcal{N}	N	0	N	100			
5/18	9:00 AM	N	_ Ŋ	N	N	0	N	0			
5/18	1: pm	N	N	N	N	0	\mathcal{N}	D			
5/18	7:00 1:pm	<i>V</i>	Ν	N	N	0	, N	3/7			
Location (Code: B	= near Bermed area; D	= near Dike	ed lagoon; P =	near Primary Iagoon;	S = near Se	condary lagoon; SL = near Sludge ponds	70-			

FORM SRWWTP 1.03 DATE: 2/24/2001

quexcellrouge\Revised by MEC.xls

				Ş	RWWTP.	- Wildlife Activi	ity Log		
Date	Dusk)	Type of B	rd(s) Observed	061-14-3	Choward	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
5/19	7:00 AA		V	N	N	N	0	N	14
5/19	9:00 9:Am	N	1	· N	2	7	D	N	180
5/19	1: pm	^	V	Ŋ	N	N	0	N	
5/19	7:00	N	/	N	7	2	0	N	120
5/20	7:00m	/	/	N	N	N	0	N	RP
5/20	9:00	N		N	\sim	N	Ø	N	80
5/20	1:00	N		N	N	\sim	0	N.	1 St.
5/20	1:0%	N		N	Ν	N.	0	N	12
5/21	6°M		\	N	N	N	0	N	th
1 21. 1	9:00 AM		\mathcal{N}	\sim	\sim	\mathcal{N}	0	\mathcal{N}	RCO
5/21	1:00 PM		\mathcal{N}	\sim	\mathcal{N}	\sim	0	\mathcal{N}	RC
5/2/	9:30 PM			N	N	M	O	N	THE
5/22	6,00 AM)		N	N	N	0	N	4
5/22	9: 00 A4		\mathcal{N}	N	N	\mathcal{N}	0	N	RC
5/22	Ilan Dad		\mathcal{N}	λ	\mathcal{N}	N	.0	N	RG
5/27	1.30 m			N	_1/_	N	0	N	ta
5/23	6:00AM	V	7	N		N	0	N	TH
5/23	7:00 AM		<u> </u>	\mathcal{N}	N langari R =	\mathcal{N}	0	N	RC

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

			S	RWWTP -	Wildlife Activi	ty Log	**************************************	
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
5 23	1:00 PM	\mathcal{N}	N	N	N	0	N	RC
23	9:30pm	N	N	N	N	0	N	
5 24	C M	N	N	N	N	70	N	12+
3 24	7:00 AH	N.	N	N	\mathcal{N}	0	N	74
5 24	1:00 PH	\mathcal{N}	N	N	\sim	0	N	RC
	4:00	N	N	\mathcal{N}	\mathcal{N}	0	1	R
5 25	1.00m	N	/\	N	n	0	1	0
25	9.00 Am	N	\sim	N	N	0	N	80
5 25	1:00 pm	N	ν	N	N	8	N	1
5 3	7:00	N	N	N	N	0	N	1 8C
	6.00 MM	N	N	N	N	0	N	the
220	9.00 Am	\mathcal{N}	N	N	N	0	N	8
26	1:00 1:pm	ν	N	N	N	0	N	
26	7:00 pm	N	N	N	N	0	N	
34	Most	N	N	N	N	0	N	TH-
27	9:92m	\sim	Ν	ω	N	D	N	14
27	1:00 pm	N	N	N	N	0	N	Th
2 74	7:00	N	N	N	\sim	0	econdary lagoon: SI = near Sludge no	M

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

-			S		- Wildlife Activi	ty Log		
Date	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspecto (Initial)
5/28	7:00 MM	\mathcal{N}	N	\mathcal{N}	\sim	0	N	C
28	9:00 Am	N	N	Ν	N	0	\mathcal{N}	1 AG
28	1:00 1:00	N	N	Ν	N	0	N	1 DE
	7:00	N	N	Ν	N	0	\sim	J.D.
29	P.00)	N	N	N	N	Ô	N	M-
22	9:00 AM	\sim	\mathcal{N}	\mathcal{N}_{\perp}	\sim	0	\mathcal{N}	RY
29	1:00 PM	\sim	\mathcal{N}	\sim	\mathcal{N}	0	\sim	RC
2	9:39m	N	N	N	N	0	N	1
2/30	699M	N	N	N	N		N	i
30	9:00 AM	N	N	N	\sim	0	N	RC
30	1:00 PM	\sim	N	N	\sim \sim	0	N	RE
30	9:39PM		N	N	N	0	N	24
3	PM CONT	N	N	N	7	0	N	The state of the s
31	9:00 AM	N,	N	\mathcal{N}	\sim \sim	0	N	RC
31	1:00 PM	N	N	N	2	0	N	RO
231	9130PM	N	N	N	N	0	N	th
X								
X							condany lawon. Cl was Cl. J.	<u> </u>

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.





Inspe	ction		Status of	Deterrent S	ystems	XV:131.0			
			ence	Bank Cover	Noise Cannon	WHOILE	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
5/1	7:00 AM 7.00 7. PM	IV	N	4	y	N		7	00
	0,00	N	N	y y	γ/	N	N	N	A ST
5/,	7- AM 1.00 PM	N	<i>N</i> ,	<i>y</i>	7	N	N	N	R
5/2	790 AM	N	N	Ý	ý l	N	N	el/	
-/	7.00 9.00 AM	N	N	Y	14	N		N	14
5/2	l AM	N	N /	- y -	Y	N	N	V	To the second
4/2	7:00 AM	N	n		7	N	N	N	A
5/5	7. PM	N	N	y	V	N	N	1	162
5/3	1.50	N	N	¥.	y	N	N	N	8
<u> </u>	- PM 9.08 _M		N I		- Y	N	<i>N</i>	N	O'S
14 4	1:08 _M	$\frac{\mathcal{N}}{\mathcal{N}}$	\sim	V /	- 4	\sim	\mathcal{N}	N	RC
			-	location (()	\mathcal{N}	\sim	\mathcal{N}	RP

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	CUON		Status of I	Deterrent S	ystems	//:Late	Ot.		
			епсе	Bank Cover	Noise Cannon	Wildlie	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
5/1	7.00 AM	N	N	4	y	N	A/		101
5 /	0100 PM	/ 3	<u> </u>	4	4	Killder#	N	AKEN	
Access	G'AM Q'DDM		N	1	<u> </u>	KilldEFR	N		14
5/	7.0°Ам		N		Y	N	N	7	7
/ F	/ AM / COPM		\mathcal{N}	<u> </u>	У.		N	N	\mathcal{RC}
5/	600M	N	N		7	N	\mathcal{N}	N	RC
6	00 PM	N	N	7	7	N	N	N	H
	9:08M	\mathcal{N}	N	y	y	N	N	λ	世
	1:08M	\mathcal{N}	N	У	Y	N	<i>N</i> ,	1	RE
5), OO, / WA 00, /	N	N	4	Y	X	~	N	KC.
*	√° PM	- 14	7/	<u> </u>	1	N	N	$\frac{N}{N}$	The
/ /	Ž: _{OO} AM	N	\sim	<u> </u>	Y	\sim	N		PP
	O PM	N	\mathcal{N}	<u> </u>	Y	Λ.)	4)		700

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	ystems	Wilder			
			ence	Bank Cover	Noise Cannon	Wille	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
5/8	9/00 PM	7	7	7	_ Y	N	N	A /	41-
	PM		N	/	V	\mathcal{N}	N	N	1
7/8	/. OPM		N		- 'Y Y	<i>N</i>	N	N	RC
5/9	7',00 AM G200	1	N	<u>Y</u>	4	N		N	RC
5/	, РМ (), ОО АМ	N	N	4	4		N	1/	R
19	PM	N	7 7	7	1	A N	N	N	4
5/10	7:00 AM	N	N	<u> </u>	У	N		X	77
	7. PM 9.00 AM	N N	\mathcal{N}	$\frac{y}{\sqrt{1-x^2}}$	<u> </u>	N	N	N	An .
5/,5	/ AM / PM	N	N	$\frac{2}{\lambda}$	<u>у</u> У	N /	N	N	S.
5/11	7:00 AM	N	N	4	Y	N	N	\mathcal{N}	<u>X</u>
	PM	\mathcal{N} ,	V	Y	Y	N	1/	-V	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspe	ction		Status of	Deterrent S	ystems	\$\$/:1.as.c			
-			епсе	Bank Cover	Noise Cannon	Wildlife	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
5/11	9:00 AM		N	Ψ,	4	N	N	N	5
. /	7:00 AM	1	N	<u> </u>	V	N	N	N	X
5/12	7) PM	N	N	4	X	\sim	1/	N	100
5/12	9:00 AM	7	N	Y	Y	N	T N	N	AC.
5/	1100 PM	N	N	Y	Y	N	N	2	
13	GOPM	-/3 - +	N	7	- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	N	N	N	M-
٠ الما	7: ⁶⁰ AM	N	N N		7	N	N	N	#
/13	/:00 PM	N	N	У	У	N	N	N	RC
5	JOGAM JOGO			Y	7	N	N	\mathcal{N}	RC
	₹°8M	17	N	<u> </u>	<u> </u>	N	N	N	
<i>/ 5 / 5</i> 1	J. OPM	N	N	<u>У</u> У	<u> </u>		\mathcal{N}	\mathcal{N}	RC
"Yes" (V)						\mathcal{N}	\mathcal{N}	N	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of	Deterrent S	ystems	79.723.31.0			
		F	ence	Bank Cover	Noise Cannon	Wildlite	Observations		
Date 2012-	Time	Breach/ Damage (Y/N) ^l	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
5/	\$1.00 \$ AM		7	1	¥			, ,	}
<u> </u>	9130 PM		N	``	Y	N	N	N	7
116	9:00 _{AM}			<u>Y</u>	Y	N		I N	Dr.
	/; <i>6</i> 0PM		\mathcal{N}	<u> </u>	У	\sim	^/	N	2
	6:00 9:00 PM	N	7		1	N	N	N	W-
16		4/_	\mathcal{N}	<u> </u>		\mathcal{N}	1	4/	180
///_[7.00 AM		\mathcal{N}			\mathcal{N}	N	N	RC
	1:00PM 7:00	N	N	<u>y</u> V	<u> </u>	N	N	N	RC
5/17	7.00 7.00 PM		N	-4V	1	\mathcal{N}	N	4/	14
•/	9.60 9. AM	7N	$\frac{N}{N}$	/ 	/ <u> </u>	N	N	N	80
117	1.00 PM	N		$-\sqrt{}$	_		N	N	D
110	7.00	• ,	N			N	N	N	Sa
//8	2:00 PM	N		$-\frac{7}{y}$	/// 	\mathcal{N}	N	N	RO
Voc!! (V)			14	(N	\perp	N L	R

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	ystems	\$7/1 31/4			
		F	епсе	Bank Cover	Noise Cannon	Wilding	Observations		
Date 20/2	Time	Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
5/18	9.00 AM 1.00 PM	N	N_{\parallel}	Y	Y	N	N		E
}	7:00	N	N	7	Y	N	N	N	Mary Contract of the Contract
5/19	AM 	N	N N	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4	<i>N</i>	n/	1/	14
5/10	9.00 9. AM	N	N	/	4	N	N	N	10
2/19	/ PM	N	N	Y	7	N	N N	N	100
5/20	7500 AM	N	\mathcal{A}	<u> </u>	Ý	N	N	N	80
	1.00 1.PM	<u> </u>	N	(<u>/</u>	//-	N	N	N	1
1/20	1. AM 1. PM	N	$\frac{N}{N}$		Y	N	N	N	10
	100 9 AM	N	N	<u>/</u>	7	N	N	Ν	16
	9:30 M	N	N	7	7	N	N	N	世
6/2/	, co _{AM}	N	N	У	<u> </u>	N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N	The state of the s
/21	,0 PM	N	N	Y	Ý	N	N	N	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of	Deterrent S	ystems	NECT TEST			
			ence	Bank Cover	Noise Cannon	A ((fill))	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
5/22	O AM		7	4	Y	N			
- 6-6-	413pm	2	N	7	4	N	N	N	3
/22	9.00AM		\mathcal{N}	Y	4	<i>N</i>	\sim \sim	N	770
····	<i>]:∞</i> 0PM	\sim		У	У	N	N	N	RG
23	6999 438m	1	7		- 	N	N	N	AL.
//	1 ⁻ РМ 9:0 ⁰ АМ		N	<u> </u>		N	N	N	M
/23	<i>9.°</i> АМ /: [©] РМ		\mathcal{N}		У	/\{	M	N	RP
	200 J	X I	70	У	Y	N	N	N	RE
24	9:30 9:30	7/	N			N	N	N	dit .
1	9;00 AM		\sim	7	7		N	N	170
/7 <i>U</i> [/: 00 PM	N	N		7		\mathcal{N}	N	RC
120	フ <i>′の</i> ∂ AM	N	N	Ý	7	1/	N	N	RC
165	7. PM	N	N	14	y/	N	1		
Vae" (V).			, 100 min				\mathcal{U}	\mathcal{U}	XO_

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of I	Deterrent S	ystems	TRACE AND AND AND AND AND AND AND AND AND AND	Observations		
			ence	Bank Cover	Noise Cannon	*******			
Date Do/2		Breach/ Damage (V/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspecto (Ioitlais
5/25	9:00 1:00		<u>N</u>	У	Y	N	J.	Tas/	So
5 /	1:00 6:00		N	Y		N	N		1
26	7.984	······································	N			N	N	- NO	₩_
5/	9.00 1. AM	N	N	7	V	N	I N	W	XC.
126	1.00 MY		N	Y	4	N		<i>N</i>	K
5 27	100°	N	N.	V	4	N	N	N	M
	7: PM 9:00	<u> </u>	$\frac{N}{N}$	<u>/</u>		<u> </u>	N	N	BC
127	1.60 PM	N		7		N		N,	K.
1/20	720 AM	N		Y	Y	A .	N	~	<u>R</u>
100	7.PM	<u> </u>	N.	Y	TY	N	N	4	X
5/28	9.63 1.00	N	N	-		V	N	W	&
	/. PM	N	Scription of		7 1	N	N. Commission of the commissio	W	h

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	(icisi		Status of I	deterrent S	ystems	12:51:41:5	Observations		TO(6/2000)
		F	спсе	Bank Cover	Noise Cannon	areta erec			
Date 2012		Breach/ Damage (Y/N)	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N. or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspecto (Initials
5/29	6:00 N. 20	LN	N	1	Y	N	X		3
` ر ا	٩:٥٥ M		<u> </u>	7	<u> </u>	N		N	#
)/29	9:00 AM 1:00 PM	-	<u> </u>	<u> </u>	<u> </u>	N	N	N.	R.P
5 /	6-00 6-00 7.00	<u> </u>	N	<u> </u>	Y	\sim	N	N	RC
30			7 7			1	N	N	H
<i>/_</i>	9:00AM		- N	V		N	M.	N	#
/30	!:00 PM		N	У	Y	N	<u> </u>	<u>N</u> _	KC
	L'DO MA	N	N	1	Ý	* /	N	N	KG
31	9:38	N	N	Y	Y	N		<u> </u>	TU
31	7:001M	<u> </u>	/	<u> </u>	<u> </u>	N		N	<u> </u>
121	/!@PM	<u> </u>		<u> </u>	<u> </u>	N	N	\mathcal{N}	
	AM		-	***************************************	rest and consequences (s) and approximate an accompanient copy that the second consequences (s) and the second				
***************************************	PM	100000000000000000000000000000000000000							

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

gilexcel range Srwwip oil management insp. log sheet

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
Inst	pection	Any recove	rable oil not e	captured by	skimmers? 1			
Date <i>2012</i> ,	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5/1	7:00 7:00 PM	11	1	N N	N	<i>y Y</i>	NA	B
5/,	9.00 1.00 PM	N N	N	N	N	' ' ' '	NA NA	50
SIZ	7:00 AM 7:00 PM		N N·	N	N	¥.	AAA WA	80
5/2	9:00 AM	A (N	N N	N	¥ 	NA	E
5/3	7:00 AM 7:00 PM	al /	N N	N	N	<i>y</i>	NAM	II.
5/3	9.00 AM	n /	N	N	N	7	NA	Sc.
5/4	9:00 AM 1:00 PM	N N	N	N	N	Y	NA NA	RG

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E. bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Primary Secondary Sludge Diked Inspector Date (Y or Location of Uncontained Oil²) (or "NA" if not applicable) Time (Initials) Lagoon Lagoon **Ponds** Lagoon (Y or N) (Yor N) (Y or N) (Y or N) 2012) 00_{AM} 0,00 PM 1,00 AM 000 9:00 AM *1:00* PM 00 AM N 00 NA N 9:00 AM 1:00 PM .00 N AM 00 L 9:00 AM NA PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
Inspe	ection	Any recove	rable oil not	captured by	skimmers? ¹			
Date 2512	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5 8	AM GOO PM	N	2	2 <	2/	1	NH	#
1 / 200	9:00 AM	N	N	N	N	Y .	NA	RE
	7:00 PM	N	N	$\frac{N}{N}$	N	7	NA NA	RG
>/7 5 / (9500 PM (100 AM	N N	//	<i>N</i>	<i>N</i>	1	M	R
19	1:00 PM	N	N		N		NA NA	M
5/10	7.00 PM	<i>√</i>	N	N	N	Y	NA NA	8
5/10	9:00 AM 1:00 PM	2 2	N	N	N N	<u> </u>	NA	A.
	7:00 AM	N	N	N N		y, V	NA NA	12
711	7. PM	N	N	\mathcal{N}	1	1 / /	NA	80

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	'P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
lnspe	ection	Any recove	rable oil not	captured by	skimmers? ¹		974	
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5/11	9.00 AM	N	N	N	N	Y	NA	80
	7-720	N	N	N	<i>N</i>	<u> </u>	NA	1
S//Z	1.60 PM	N/	N	<i>N</i>	W	y	NA	18
5/12	9:00 1:00	N	N	\sim	N	À	NA	D
	I⁻ PM	N	Ν	<u>Ni</u>	\sim	<u> </u>	NA	(XC)
5/13	(1.00 VW	7	7	7	7	<u> </u>	N-M	其
	9:00 AM	7	7	N	7		NA NA	St.
7/13	<i>]:00</i> PM	Ν	N	N	N	У	NA	70
_ /	};∞ _{ΛΜ} Φ:00	7		N	Z	4	4uc	M
2 14	1 PM	N	7	N	N	1	NH	4
2/14	9:00 ам 1:00 рм	N	\mathcal{N}	N	$\frac{\mathcal{N}}{\mathcal{N}}$	У У	NA NA	RC

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

lnsp	ection	Any recove	rable oil not o	captured by	skimmers? ¹		Address of the second of the s	
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5/	O Z	7	N	N	N	4	XAV.	<u> </u>
<u> </u>	9:30 _{PM}	N	N	N	2	<u> </u>	M	M
5/_	9:00 AM	N	N	N	\sim	У	NA	アと
/15	/:00 PM	\mathcal{V}	\sim	N	N	У	NA	RE
5/	600AM	7	N	N	7	4	NH	K+
/16	9,00 PM	1/	N	n/	N	V	nAA-	120
5/	9:00 AM	Ν	\mathcal{N}	$\mathcal{N}_{\mathcal{L}}$	\sim	4	NA	RP
116	1:00 PM	Ν	N_{i}	\mathcal{N}_{i}	\mathcal{N}	<i>y</i>	NA	RE
5/17	フ ⁵ 00 AM	N	N	\sim	M	<u> </u>	NA	12
11/	7. PM	\mathcal{N}	Δ	N	\mathcal{N}	y /	NA	A
5/11	9. P. AM	\mathcal{N}_{\perp}	N	N	N	У	NA	Ag
	/. PM	\mathcal{N}	\sim	N	Ν	V	NA	15
5/18	7500 AM	N	\mathcal{N}	N	1		M	10
	7.00 PM	N	N	N	N	1 1	NA	12

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	'P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
Insp	ection	Any recove	rable oil not	captured by	skimmers?			
Date 2 0/2-	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5/18	9.00 1.00 PM	N	N	√ 2	7	V	NA	E
5/29	7:00 AM	N,	N	1	N	Y T	NA	14
,	7:00 PM	A /	22	2	7	y '	NA	8
5/19	/: 00 PM	N	N	N	N	<u> </u>	NA	É
5/70	7:00 PM	N	Ņ	N	N,	X	NA NA	
120	9:00 AM	N	2	2	N	//	NA	80
5/21	7. PM 7100 6 AM	N	7 7	N	<u>N</u>	4	NH NH	A T
5/	9:00 AM		7 2	N	<u>N</u>	7	Not	
/21	1:00 PM	1	N	N	\sim	- 7	NA NA	RE

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	SRWWT	P DAII	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
lnspe	ection	Any recove	rable oil not	captured by	skimmers? ¹			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5/00	6:00 AM	2	N	N	N	<u> </u>	AL.	1
122	9'30 PM	N	N	N	N		MA	M-
5/5	9:00 AM	\mathcal{N}	N	N	N	Y	NA	20
/22	1:00 PM	N	N	N	\mathcal{N}	Y	NA	RE
5/)6:0QM	N	N	7	7	Ч	Att	
/23	9:50 PM	N	7	2	7	7	λA	
5/23	9:00 am	N	\sim	N	N	Y	NA	RP
	<i>1:00</i> pm	N	\mathcal{N}	N	N	Y	NA	RE
5/	600 AM	N	N	N	Z	7	NA	4
124	9:00 PM	N	\mathcal{N}	\sim	h	V	n A	100
5/01/	9:00 AM	N	N	N	N	7 4	NA	2
/24	<i>1:00</i> PM	\mathcal{N}	\mathcal{N}	\mathcal{N}	\mathcal{N}	¥	NA	70
5/25	7,00 _{AM}	N	N/	N	N	4	NA	RA
010)	7. _{PM}	\mathcal{N}	\mathcal{U}	\mathcal{N}	\mathcal{N}	<i>y</i> /	NA	A

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection	Any recoverable oil not captured by skimmers?			skimmers?			
Date DII	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)		Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
5/25	9.00 1.00		N	N,	N,	У	NA	R2
700-1	/· PM	N	N	N	N	V	NA	8
	1:00 AM	1	N	N	N		NH	Al-
/26	9.00 PM	\mathcal{L}	<u> </u>	$\mathcal{L}_{\mathcal{L}}}}}}}}}}$		<u> </u>	NA	SC.
5/26	1.00	N	N	N	N_	У	NA	8C
	/ PM	N	N		N		NA	(C)
/ ()	600 _{AM}	7	1	7	7	7	M	M-
<u> </u>	PM PM	\mathcal{N}	N	Y	V	Y	NA	De
5/22	4: AM	N	N	\mathcal{N}_{+}	N	Y	NA	R
dul	/. PM	N	N	\mathcal{N}_{j}	N	У	NA	D
-60	7:00M	N	À/	N	N		http://	A
>100	7. PM	\mathcal{L}	\mathcal{N}_{i}	N	Ŋ	<u> </u>	NA	8
5/20	AM	N	\mathcal{N}	-N	N	Y	NA	Ja
640	LIOU PM	\mathcal{N}	N	N	N		NA	120

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? 1 All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Inspector Primary Secondary Sludge Diked $(Y \text{ or Location of Uncontained Oil}^2)$ (or "NA" if not applicable) (Initials) Date Time Lagoon Lagoon Ponds Lagoon (Y or N) (Y or N) (Y or N) (Y or N) 1:00 AM 01:30 N 7:00 AM 7:00 PM V N AM 9:30_{PM} 30 M 9:00 AM 30 1:00 PM :00 AM 9:30 PM 9:00 AM PM AM PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

APPENDIX C

Oil Hauling Manifests

	print or type. (Form desig	ned for use on elite (12-pitch) typev 1. Generator ID Number		o Dana 1 nf	2 Emerganou Pagagon	- Dhann	A Bloom Second	Forr	n Approved, OMB	No. 2050-0
	WASTE MANIFEST	MIXXX7735431		4. fayo,	3. Emergency Respons			t Tracking N	lumber 24697	GB
5	Generator's Name and Mailin	ng Address	Δ.		Generator's Site Address	if different	than mailing addre	ess)	/#U3:	<u> </u>
	3001 Miller Road									
$\left \right _{G}$	Destablem, No. 45% enerator's Phone:			ı						
	Transporter 1 Company Nam						U.S. EPA ID	Number		
		AMPONNEHTAL SAS LLE					1	Manuel Magazias	6.70(-5)	
7.	Transporter 2 Company Nam	е					U.S. EPA ID	Number	역하다	
8.	Designated Facility Name and	d Sita Addrnes								
	EMAROSOLIOS (1. A. A.					U.S. EPA ID	Number		
	ODITIVATOMINO A CEARGORN, MILA	ATHUE BYZE USA					掛	DOMESTIC:		
Fa	cility's Phone: 西海滨。						1			
9;	9b. U.S. DOT Description	on (including Proper Shipping Name, Haz	zard Class, ID Number,		10. Contai	ners	11. Total	12. Unit		
H					No.	Туре	Quantity	Wt/Vol.	13. Waste C	odes
5	1. WWW.Used O	Alfon State Treatment			Ø:	hada Naga		20 J	ODIL.	an I down a series
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	 Special Handling Instructions								1154000	202 3-0
15.	Exporter, I certify that the cor	'S CERTIFICATION: I hereby declare the ed, and are in all respects in proper conditional intents of this consignment conform to the lization statement identified in 40 CFR 26	e terms of the attached E	ng to applicat DA Anknowled	ire memational and natio	nai governir	nental regulations. I	oping name, f export ship	and are classified, par ment and I am the Pri	ckaged, imary
Gene	erator's/Offeror's Printed/Type	d Name	72.27 (a) (ii i anii a laige qi	uantny genera Signal		quantity ge	nerator) is true.	W	Month Da	36
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18b. A	Iternate Facility (or Generato	r)			Manifest Reference N	umber:	U.S. EPA ID Nur	mhar		
							010/12/7/18 (48)	11001		
	y's Phone:									İ
100. 5	ignature of Alternate Facility (or Generator)				***************************************			Month Day	y Year
19. Ha	zardous Wasta Ranort Mana	gement Method Codes (i.e., codes for he				······································				
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The state of the s	No.			J.			4.			
20. De	signated Facility Owner or Op	perator: Certification of receipt of hazardo	ous materials covered by	the manifest,	except as noted in Item 1	Ва				
rinted	/Typed Name	A Long // /		Signatu		1			Month Day	Year
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UNIF	nt or type. (Form designed for use on elite (12-pitch) typ CRM HAZARDOUS 1. Generator ID Number	Jewnier.)	2. Page 1 of	3. Emergency Respon	se Phone	4 Manifee	For t Tracking t	m Approved. ON	//B No. 20
WA	STE MANIFEST		1	744-498-000				04696	G
	eralor's Name and Mailing Address Signatistal Modific Astronog			Generator's Site Addres	ss (if different t	han mailing addre	ess)		3
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Genera	Deathern, M. 48121 USA alor's Phone:								
	isporter 1 Company Name					U.S. EPA ID	Number		
7. Tran	THES PICE SECUNDANTESTAL SAS U.C. sporter 2 Company Name					U.S. EPA ID	(#900%)\5;90	193	
						. U.S. EFRID	Number		
8	gnated Facility Name and Site Address					U.S. EPA ID	Number	·	
2	2011 WYOMBAS AVERUE DEARBORN, MI 48125 USA					補	CCASA131	471	
	's Phone: 312-562-6633					1			
9a.	9b. U.S. DOT Description (including Proper Shipping Name, H	lazard Class, ID Number	``	10. Conta	iners	11. Total	12. Unit		·
HM .	and Packing Group (if any))			No.	Туре	Quantity	Wt./Vol.	13. Wasi	e Codes
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Ple		int or type. (Form desig									For	m Approve	d. OMB No. 2050
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MID 087738431

May 15, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: April 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The April monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the April wildlife survey report by MEC Environmental Consulting, and the operators' inspection logs. Two carcasses were found: an adult Eastern Cottontail at the top of the bank at the southeast corner of the East Sludge Pond, and a Mallard on the mid-slope of the east central bank of the Primary Lagoon approximately 75 feet north of the TVT bridge. The Mallard feathers appeared to be stained, possibly oiled. These carcasses will be discussed in a separate report.

Please contact me at (313) 845-3217 if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDNRE

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR April 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Wildlife Survey	Appendix A
Inspection Summary and Report Sheets	Appendix B

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period April 1 through April 30, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

A Wildlife Survey was conducted on April 9, 2012 and a copy of the report is provided in Appendix A. Inspection reports show seasonal activities observed in the general area, and no significant issues at the site were identified. Except, two carcasses were found: an adult Eastern Cottontail at the top of the bank at the southeast corner of the East Sludge Pond, and a Mallard on the mid-slope of the east central bank of the Primary Lagoon approximately 75 feet north of the TVT bridge. The Mallard feathers appeared to be stained, possibly oiled. These carcasses will be discussed in a separate report.

On several occasions of geese, heron, killdeers and ducks were observed using one of the treatment plant impoundments, and were scared off with the air horns. The birds flew or ran away after horn blasts, so persistent hazing with the air horn was necessary.

The summary of daily inspection findings is provided in Appendix B. Copies of the inspection reports are also provided in Appendix B. No repetitive use of the treatment ponds and lagoons was observed in the April inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in April. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures

taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.3 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in April 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In April, there were observations of Canadian geese, heron, killdeers and ducks overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix B.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of April 2012.

APPENDIX A

Wildlife Survey

MEC ENVIRONMENTAL CONSULTING

VIA COURIER

May 14, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant: 2012 Wildlife Survey #2

(P. N. 00330)

Dear Jim

I am very pleased to present the enclosed letter report for the subject project in partial fulfillment of your Purchase Order No. 592351. This survey constitutes the monthly bird survey in accordance with your Continuing Emergency Measures (CEM) Workplan in response to EPA Administrative Order Docket No. R7003-5-00-001.

The April survey was completed on Monday, April 9, 2012. A total of 45 sets of fiveminute observations was made from 05:40 to 21:26 at five different stations located at significant vantage points at the Schaefer Road Wastewater Treatment Plant (SRWWTP). Observations were made at this frequency in order to ensure a complete and scientifically sound inventory, to ensure quality assurance of the data collected, and to evaluate allegations of wildlife utilization of the impoundments. Observations were both visual and aural. Visual observations were made using Swarovski EL 10 x 42 power binoculars. The location of the five stations designated by MEC Environmental Consulting, which have been used in previous surveys and will continue to be used in subsequent surveys, is presented in the first enclosed table.

Weather conditions varied over the period, and were influenced primarily by a strong low pressure system centered over southwestern Quebec, a weak low pressure system centered over the MIdwest with a cold front extending west to southwest, weak high pressure systems centered over Arkansas and Kentucky, and a building high pressure system centered over the eastern Great Plains. Barometric pressure, based on radiobroadcast readings from Detroit Metro Airport, was 29.96 in.-Hg and falling at 05:00, 29.95 in.-Hg and falling at 06:00, 29.91 in.-Hg and falling at 10:00, 29.86 in.-Hg and falling at noon, 29.82 in.-Hg and steady at 20:00, and 29.84 in.-Hg and rising at 21:00. Relative humidity, also based on radio broadcast National Weather Service data, was 76% at 05:00, 79% at 06:00, 25% at 20:00, and 27% at 21:00. Sky conditions were clear to mostly clear throughout the morning, partly cloudy to mostly cloudy from noon to around 14:00, partly cloudy from 14:00 to 18:00, and then mostly clear for the duration of the period. Temperatures ranged from 40° F around 05:40, to 42° F around 06:50, to 55° F around 10:29, to 58° F around 12:09, and then to 52° F around 20:38, and to 51° F around 21:21. Winds were generally out of the west before 06:00, then

1003 AMELIA AVENUE

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mostly out of the north until dawn, and then out of the northwest until around noon, and then west-northwest until mid-afternoon, and then generally out of the northwest for the remainder of the period. Wind speed gradually increased and then decreased over the period, from approximately 3-5 mph until around 08:00, to 5-10 mph until around 11:00, to 10-15 mph, with gusts to 20 mph until approximately 14:00, to 18-25 mph with gusts to 28-30 mph until around 18:00, to 15-20 mph with gusts to 25 mph until around 21:00, and then to 10-15 mph for the remainder of the period. There was a brief light shower around 13:20. A waning gibbous moon was observed high in the south sky until around dawn. Sunrise was at 07:01; sunset was at 20:08.

A total of 23 bird species was observed within the fenceline of the SRWWTP. This species total is three species lower than the 2000-2011 March mean of 26. Although the night before the survey and the day of the survey were not particularly good for bird migration because of north winds, a number of migrants were observed likely due to the high pressure systems in the South moving birds north along the line of the cold front. Given these conditions, a greater variety and number of birds than that observed was expected. However, relatively few birds were observed within the SRWWTP fenceline. This information suggests that the habitat modifications and deterrents in-place at the SRWWTP are effective.

One non-human mammalian species was observed during the survey: Eastern Cottontail (*Sylvilagus floridanus*). At 05:53 one Eastern Cottontail was observed by spotlight at relatively close range to forage in the grass between the East and West Sludge Ponds approximately 25 feet north of the skimmer tank. This individual did not appear to have staining or oil on its fur.

One amphibian species was observed during the survey: Western Chorus Frog (*Pseudacris triseriata*). One individual was observed to vocalize in the bermed area proper around 06:12. Around 09:12 an estimated 12 individuals were observed to vocalize from the bermed area proper. Around 11:56 approximately 10-20 Western Chorus Frogs were observed to call from the bermed area proper. Approximately 6 individuals were observed to call from the dogleg of the bermed area. None of these frogs were seen.

The entire shoreline of each impoundment was systematically checked at least once during the day. Only the shorelines of the Primary Lagoon (except the north end under the net), Diked Lagoon, sludge ponds (except for the inaccessible west side of the West Sludge Pond) and the south side of the Secondary Lagoon, however, were walked due to steep slopes. The rest of the shorelines of the impoundments were searched from top of grade and other angles using binoculars. Animal sign observed during this search is summarized in the third enclosed table. Photographs, including those of animal sign, are enclosed.

Two remains were found: an adult Eastern Cottontail at the top of the bank at the southwest corner of the East Sludge Pond, and a probable Mallard on the mid-slope of the east central bank of the Primary Lagoon approximately 75 feet north of the TVT bridge. The Mallard feathers appeared to be stained, suggesting oiling. These remains

Mr. James E. Earl - May 14, 2012 page 3

will be discussed subsequently in separate reports.

If you have any questions regarding this report please call me at (248) 585-3800. Thank you for choosing MEC Environmental Consulting for your wildlife management needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael E. Carlson Principal

enclosures

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY STATIONS

No.	Location	Venter Divide
1	Between East and West Sludge Ponds, on the south side, between the two guard rails	Vantage Point for East Sludge Pond West Sludge Pond
2	East side of Secondary Lagoon at north end of guard rail opposite the North Clarifier	South Clarifier (part) Secondary Lagoon North Clarifier (most)
3	South central end of Primary Lagoon just east of weather station	Primary Lagoon
4	Southeast corner of Diked Lagoon	Diked Lagoon Secondary Lagoon (except S end) Primary Lagoon
5	South Central Side of Bermed Area*	Bermed area*, except west end (including dogleg) Diked Lagoon

^{*} not a wastewater treatment pond or lagoon

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Monday, April 09, 2012

Common Name	Scientific Name	Maximum	1 100	Tigraga	٨	Arresta (- 55 IA	65458	
		Number		Τc	ķ	rea Te	a vTr) F	Notes
Common Loon	Gavia immer		 		Ī		-	_	
Pied-billed Grebe	Podilymbus podiceps		T			T	\dagger	1	
Horned Grebe	Podiceps auritus		<u> </u>	\dagger	T	\dagger	\dagger	+	
Double-crested Cormorant	Phalacrocorax auritus	28	1	╁	Х	x	<u> </u>	(X	1, 2, 3, 4
American Bittern	Botaurus lentiginosus		\vdash	${\dagger}$	┪	\dagger	\dagger	+	., _, _, .
Great Blue Heron *	Ardea herodias	1	╁╌	\vdash		X	+	\dagger	1, 2, 5, 6
Great Egret *	Ardea alba			\vdash		╁	╁		1, 2, 0, 0
Snowy Egret	Egretta thula		-	╁	-	+	╁	+	
Green Heron *	Butorides virescens		┢		 _,	+	\vdash	╀	
Black-crowned Night-Heron *	Nycticorax nycticorax		-	+		-	╁	-	
Yellow-crowned Night-Heron	Nyctanassa violacea		-	\vdash		1-	╁	+	
Glossy Ibis	Plegadis falcinellus		一			-	╁	╁	
Turkey Vulture	Cathartes aura		-			┼	-	-	
Snow Goose	Chen caerulescens			\vdash		┢╌	┝	┝	
Cackling Goose	Branta hutchinsii		_	$\left \cdot \cdot \right $		┝	\vdash	\vdash	
Canada Goose *	Branta canadensis	20	Х	Х	Х	Х	X	X	7
Mute Swan *	Cygnus olor				_		<u> </u>		,
Tundra Swan	Cygnus columbianus			\vdash		-	-	-	
Wood Duck *	Aix sponsa			\dashv		_	_		
Gadwall	Anas strepera		-	\dashv					
American Wigeon	Anas americana						-	Н	
American Black Duck *	Anas rubripes	 	-	\dashv	_		-		
Mallard *	Anas platyrhynchos	3	\dashv	┥	_	Χ		Х	8
Blue-winged Teal *	Anas discors	1	\dashv	\dashv	\dashv	^			0
Northern Shoveler	Anas clypeata		\dashv	+	\dashv				
Northern Pintail	Anas acuta		\dashv	\dashv	-		_		
Green-winged Teal	Anas crecca		\dashv	+	4	-	-		
Canvasback	Aythya valisineria		\dashv	+	\dashv	-		\dashv	
Redhead	Aythya americana		\dashv	+	\dashv	+		\dashv	
Ring-necked Duck	Aythya collaris		-	\dashv	\dashv	\dashv	-	-	
Greater Scaup	Aythya marila		\dashv	-	\dashv	\dashv	-	\dashv	
Lesser Scaup	Aythya affinis		+	\dashv	+	-	-	_	
Long-tailed Duck	Clangula hyemalis	-	\dashv	+	+	+	-	\dashv	
Bufflehead	Bucephala albeola		-	-	+	-+	_	_	
Common Goldeneye	Bucephala clangula		+	+	+	\dashv	-	\dashv	
Hooded Merganser	Lophodytes cucullatus		+	+	\dashv	-	-	+	
Red-breasted Merganser	Mergus serrator	+	+	+	+	+	\dashv	+	****
Common Merganser	Mergus merganser	 	+	+	+	+	+	_	
Ruddy Duck	Oxyura jamaicensis		+	+	+	4	\downarrow	+	
Osprey	Pandion haliaetus		+	+	+	+	4	\dashv	
	Page 1		⊥		┸			\perp	

Common Name	Scientific Name	Maximum		Area		30 S S S S	Notes	
		Number	L	C	si	P	DΠ	B
Bald Eagle	Haliaeetus leucocephalus							
Northern Harrier	Circus cyaneus		Т			1		
Sharp-shinned Hawk	Accipiter striatus			\Box	1	7		
Cooper's Hawk *	Accipiter cooperii		T			1		
Broad-winged Hawk	Buteo platypterus		-		7		\top	
Red-tailed Hawk *	Buteo jamaicensis	1	T			+	7	1, 2, 3, 5, 9
Rough-legged Hawk	Buteo lagopus		1	H	\top	1	\top	
American Kestrel *	Falco sparverius	1	T		X	_	+	1, 2, 5, 10
Merlin	Falco columbarius		<u> </u>	\vdash	T	+	十	1, -, -, -,
Peregrine Falcon	Falco peregrinus		H		\dagger	+	+	
Ring-necked Pheasant *	Phasianus colchicus				+	+	+	
Northern Bobwhite *	Colinus virginianus			-	\dashv	╁	┪	
Virginia Rail	Rallus limicola				+	╬	+	
Sora	Porzana carolina			+	+	╁	\dashv	
Common Gallinule	Gallinula galeata				+	╫	+	
American Coot	Fulica americana			\dashv	+	+	- -	
Black-bellied Plover	Pluvialis squatarola			+	\dashv	+	+	
American Golden-Plover	Pluvialis dominica				+	+	╫	
Semipalmated Plover	Charadrius semipalmatus			-	+		+	
Killdeer *	Charadrius vociferus	6	\dashv	+,	()	/	$\frac{1}{x}$	2.5.44
Greater Yellowlegs	Tringa melanoleuca	- H	-	-	Ψ	+	+^	2, 5, 11
Lesser Yellowlegs	Tringa flavipes			-	\dashv	+	+-	
Solitary Sandpiper	Tringa solitaria			- -	+		+	
Spotted Sandpiper *	Actitis macularius				+	+	+	
Whimbrel	Numenius phaeopus		\dashv	-	+	\bot	4	
Ruddy Turnstone	Arenaria interpres		-		+	-	+	
Red Knot	Calidris canutus	_	_	+	+	ļ.,	\bot	
Sanderling	Calidris alba		\dashv	-	\bot	$oldsymbol{\downarrow}$	┿	
Semipalmated Sandpiper	Calidris pusilla		-	-	+	-	lacksquare	
Western Sandpiper	Calidris mauri		-	+	-	\perp	-	
Least Sandpiper	Calidris minutilla		4	_	\downarrow	╀	_	
White-rumped Sandpiper	Calidris fuscicollis		\downarrow	_	\bot	_	_	
Baird's Sandpiper	Calidris bairdii			_	1	_	_	
Pectoral Sandpiper	Calidris melanotos		\downarrow	_	\downarrow	L	_	
Dunlin	Calidris alpina		4		\perp	╀.	$oldsymbol{\perp}$	
Short-billed Dowitcher	Limnodromus griseus		_	_	_	L		
Wilson's Snipe	Gallinago delicata				ot	<u> </u>		
American Woodcock *	Scolopax minor		_	\perp		L		
Wilson's Phalarope		3	\perp		X	_	Х	2, 5, 12, 13
Bonaparte's Gull	Phalaropus tricolor		\perp		_	L	Ш	
Ring-billed Gull *	Chroicocephalus philadelphia		\perp					
Herring Gull *	Larus delawarensis		\perp		L			
_	Larus argentatus	17	<u> </u>	Х	X	X	Х	1, 2, 14
Thayer's Gull	Larus thayeri							
Glaucous Gull	Larus hyperboreus				Γ			

Common Name	Scientific Name	Maximum	Area L C S P D B			Notes			
		Number	L	c i	si	P	D	B	inotes
Great Black-backed Gull	Larus marinus								
Caspian Tern	Hydroprogne caspia								
Common Tern *	Sterna hirundo				1	\neg			
Forster's Tern *	Sterna forsteri					7			
Black Tern *	Chlidonias niger		\prod		7				
Rock Pigeon *	Columba livia				7	7			
Mourning Dove *	Zenaida macroura	4		1	X	\mathbf{x}	7	X	2, 5, 1
Black-billed Cuckoo	Coccyzus erythropthalmus		1	\top	\top	_	\exists		, ,
Eastern Screech Owl *	Megascops asio			+	1	7	7		
Great Horned Owl *	Bubo virginianus			\top	\top	1	7		
Snowy Owl	Bubo scandiacus			\dagger	+	T	+	_	
Short-eared Owl	Asio flammeus		1	+	\dagger	\dashv	\dashv		
Common Nighthawk	Chordeiles minor			+	+	1	\dashv		
Chimney Swift *	Chaetura pelagica		+	+	\dagger	+	+		
Ruby-throated Hummingbird *	Archilochus colubris		_	╅	+	\dashv	\dashv		
Belted Kingfisher *	Ceryle alcyon			+	+	+	+		
Red-headed Woodpecker *	Melanerpes erythrocephalus	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	\dashv	╁	+	+	╅		
Red-bellied Woodpecker *	Melanerpes carolinus	-		╫	+	╅	+		
Downy Woodpecker *	Picoides pubescens	3		+	+	+	٠,	ζ .	2 2 5
Hairy Woodpecker *	Picoides villosus			+	+	+	+		2, 3, 5
Northern Flicker *	Colaptes auratus	2	-	-	╁	+	+,	 	2 2 5 40
Eastern Wood-Pewee *	Contopus virens		+	+	+	+	- '	\	2, 3, 5. 12
Yellow-bellied Flycatcher	Empidonax flaviventris		-	+	+	+	+		
Alder Flycatcher	Empidonax alnorum		_	+	+	+	+	-	·
Willow Flycatcher *	Empidonax traillii		_	+	╁	+	- -		
Least Flycatcher *	Empidonax minimus		-	+	+	-	\bot		
Eastern Phoebe	Sayornis phoebe		_	+	╀	+	_	 	·
Great Crested Flycatcher *	Myjarchus crinitus		\dashv	-	╀	-	╀.	 	
Eastern Kingbird *	Tyrannus tyrannus			+	╀		+		
White-eyed Vireo	Vireo griseus		_	+	╀-	╀	+	 	·
Blue-headed Vireo	Vireo solitarius		+	╀-	╀	\bot	-		
Yellow-throated Vireo *	Vireo flavifrons			-	\perp	_	╀	<u> </u>	
Warbling Vireo *	Vireo gilvus			_		╀	_	ļ	
Philadelphia Vireo	Vireo philadelphicus		\perp	┦_	L	1	1.		
Red-eyed Vireo *	Vireo olivaceus			╀	L	1	_		
Blue Jay *	Cyanocitta cristata		_	L	L	Ļ	_		
American Crow *	Corvus brachyrhynchos			_	L	_	1	<u> </u>	
Horned Lark			_	_		\perp	$oldsymbol{\perp}$		
Purple Martin *	Eremophila alpestris		\perp	<u> </u>	L	<u> </u>	\perp	<u> </u>	
Tree Swallow *	Progne subis			L	L		L		
Northern Rough-winged Swallow*	Tachycineta bicolor	8		X	X	X	Х	<u> </u>	1, 2, 3, 16
Bank Swallow *	Stelgidopteryx serripennis				L	_			
Barn Swallow *	Riparia riparia		\perp				L		
Cliff Swallow *	Hirundo rustica	1			Х		Х		1, 2, 3, 17
Sill Swallow	Petrochelidon pyrrhonota								

Common Name	Scientific Name	Maximum	1		Α	rea	3		Notes
		Number		To				В	
Black-capped Chickadee *	Poecile atricapillus		Π		T		T	T	
Tufted Titmouse *	Baeolophus bicolor		Τ	T			T		
Red-breasted Nuthatch	Sitta canadensis		T	T	T		T	Т	
White-breasted Nuthatch *	Sitta carolinensis			1	T	T	T		
Brown Creeper	Certhia americana		T	1		T	†		
Carolina Wren *	Thryothorus ludovicianus		╈	T	T	T	T	+-	
House Wren *	Troglodytes aedon		T	1	1	†	+-		
Winter Wren	Troglodytes hiemalis		╁	╁	T		T	+	
Sedge Wren	Cistothorus platensis		T	✝	-	十	T	╁	
Marsh Wren	Cistothorus palustris		┢	-	一	+	+		
Blue-gray Gnatcatcher	Polioptila caerulea		_	H	-	+	╁	\vdash	
Golden-crowned Kinglet	Regulus satrapa		+	╁	\vdash	+	╁╴		
Ruby-crowned Kinglet	Regulus calendula		╁	-	-	╁	-	\vdash	
Eastern Bluebird	Sialia sialis		\vdash		\vdash	╁	╀		
Veery	Catharus fuscescens	*	\vdash		-	-	\vdash	\vdash	
Gray-cheeked Thrush	Catharus minimus			-	-	十	-	H	
Swainson's Thrush	Catharus ustulatus	A STATE OF THE STA		_	<u></u>	-	\vdash		
Hermit Thrush	Catharus guttatus				<u> </u>	╀	├	\vdash	
Wood Thrush *	Hylocichla mustelinus		\vdash	Н		-	-	\vdash	
American Robin *	Turdus migratorius	28	X	Y	Y	Y	V	V	18
Gray Catbird *	Dumetella carolinensis	20	_	^	$\stackrel{\wedge}{-}$	<u> ^</u>	<u> </u>		
Northern Mockingbird	Mimus polyglottos					-	_		
Brown Thrasher *	Toxostoma rufum					_			
European Starling *	Sturnus vulgaris	5403	V	$\overline{\lor}$	~	Ļ	V	\downarrow	0.5.40.00
American Pipit	Anthus rubescens	3403	^	4	^	^	^	1	2, 5, 19, 20
Cedar Waxwing *	Bombycilla cedrorum		\dashv	_					
Blue-winged Warbler	Vermivora cyanoptera			-				4	
Golden-winged Warbler	Vermivora chrysoptera			\dashv	_			_	
Tennessee Warbler	Oreothlypis peregrina		4	_	_			_	
Orange-crowned Warbler	Oreothlypis celata			\dashv	_	_	_	\dashv	
Nashville Warbler *	Oreothlypis ruficapilla						_	_	
Northern Parula	Setophaga americana		\dashv	_	_			_	
Yellow Warbler *	Setophaga petechia		\downarrow	_	_		_	_	
Chestnut-sided Warbler			_	4	_		_	_	
Magnolia Warbler	Setophaga pensylvanica Setophaga magnolia		\perp	_			_	_	
Cape May Warbler			_	_	_	_			
Black-throated Blue Warbler	Setophaga tigrina		_	_	4			_ _	
Yellow-rumped Warbler	Setophaga virens			\bot	\bot			\perp	
Black-throated Green Warbler	Setophaga coronata		4	_	\dashv	\downarrow			
Pine Warbler	Setophaga virens				\bot	\bot			
	Setophaga pinus								
Prairie Warbler	Setophaga discolor						$ _ $		
Palm Warbler	Setophaga palmarum								
Bay-breasted Warbler	Setophaga castanea			J	\int	$ \mathbb{J} $		T	
Blackpoll Warbler	Setophaga striata		T	T	T		T		

Common Name	Scientific Name	Maximum		wigi:	Δ	rea		15545	No.
		Number		Tē				ĪR	Notes
Cerulean Warbler	Setophaga cerulea		1	T	Ĭ	1 2 2 2		1	
Black-and-white Warbler	Mniotilta varia		1			†			
American Redstart	Setophaga ruticilla		+	T	T	 	\vdash		
Prothonotary Warbler	Protonotaria citrea		十			+	-	 	
Ovenbird *	Seiurus aurocapilla		+-	\vdash	\vdash	\vdash	-		
Northern Waterthrush	Parkesia noveboracensis		+-		H	1	 -	-	
Mourning Warbler *	Geothlypis philadelphia		+			┢	_		
Common Yellowthroat *	Geothlypis trichas		+	\vdash		\vdash	-	H	
Wilson's Warbler	Cardellina pusilla		十			<u> </u>	_		
Canada Warbler	Cardellina canadensis		╁					\vdash	
Yellow-breasted Chat	Icteria virens		+			-			
Scarlet Tanager *	Piranga olivacea		十	\vdash					
Eastern Towhee *	Pipilo erythrophthalmus								
American Tree Sparrow	Spizella arborea	+	+-			х	_		3, 5, 12, 21
Chipping Sparrow *	Spizella passerina	1	╁╌			X			3, 5, 12, 21
Field Sparrow *	Spizella pusilla	<u>'</u>	\vdash	Н		^	_		0, 0, 12, 22
Vesper Sparrow *	Pooecetes gramineus						\dashv		OOC
Savannah Sparrow *	Passerculus sandwichensis		\vdash	_		\dashv		_	
Grasshopper Sparrow	Ammodramus savannarum			\dashv			{	_	
Henslow's Sparrow	Ammodramus henslowii			\dashv	-		-	_	
Fox Sparrow	Passerella iliaca			\dashv	-		\dashv		
Song Sparrow *	Melospiza melodia	8		4	v	X	Ÿ	V	0 0 5 00
Lincoln's Sparrow	Melospiza lincolnii	0	\vdash	_	$\stackrel{\wedge}{\dashv}$	4	4	4	2, 3, 5, 23
Swamp Sparrow *	Melospiza georgiana			_	_	\dashv	\dashv	\dashv	
White-throated Sparrow	Zonotrichia albicollis			\dashv		_	4	_	
White-crowned Sparrow	Zonotrichia leucophrys			_		\dashv	\dashv	\dashv	
Dark-eyed Junco	Junco hyemalis			4		\dashv	4	\downarrow	
Lapland Longspur	Calcarius Iapponicus			_	4	_	4	_	
Snow Bunting	Plectrophenax nivalis			4	_	4	_	4	
Northern Cardinal *	Cardinalis cardinalis	4	-	\perp		_	_		
Rose-breasted Grosbeak *	Pheucticus Iudovicianus	1.		4	_	_	4	X	2, 5, 12
Indigo Bunting *				_	_	_	_	_	
Dickcissel	Passerina cyanea Spiza americana			_	4	\perp	_	\perp	
Bobolink *				_		4		_	
Red-winged Blackbird *	Dolichonyx oryzivorus				4		_	\perp	
Eastern Meadowlark *	Agelaius phoeniceus	329		1	X	,	X .	X L	2, 5, 24
Rusty Blackbird	Sturnella magna								
Common Grackle *	Euphagus carolinus			_			\perp		
Brown-headed Cowbird *	Quiscalus quiscula	1444			<u> </u>		7	X	2, 5, 25
Orchard Oriole *	Molothrus ater								
	Icterus spurius			\perp			$oldsymbol{\perp}$		
Baltimore Oriole *	Icterus galbula						\int		
Purple Finch	Carpodacus purpureus				\int				
House Finch *	Carpodacus mexicanus				\int	\int		\prod	
Red Crossbill	Loxía curvirostra		T	T	T	T	T	T	

Scientific Name	Maximum			Aı	rea			Notes
	Number	L					В	
Loxia leucoptera		1			Т	一	Ť	
Acanthis flammea		T	-	-	\vdash	\vdash		
Spinus pinus		╁			╁	╁		
Spinus tristis	11	x		Х	X	X	Х	2, 3, 5, 26
Coccothraustes vespertinus						<u> </u>		2, 0, 0, 20
Passer domesticus		┢╌		\vdash	┢	├-		
	23			dej):				
	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis 11 X Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis 11 X Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis 11 X X Coccothraustes vespertinus Passer domesticus	Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis Coccothraustes vespertinus	Number L C S P D	Number L C S P D B Loxia leucoptera Acanthis flammea Spinus pinus Spinus tristis 11 X X X X X Coccothraustes vespertinus Passer domesticus

LEGEND

Number means the maximum total observed within the fenceline at the facility; effort was made to avoid any double-counting.

* Indicates species known or suspected to breed in the general area encompassing the site based on generalized state maps (showing county boundaries) presented in "The Atlas of Breeding Birds of Michigan" by R. Brewer et al. (MSU Press: East Lansing, 1991). It should be emphasized that many of the species indicated as breeding birds have specific habitat requirements that are not met by the industrial environment at the Schaefer Road Wastewater Treatment Plant (SRWWTP) and the surrounding area. Thus, species marked with an asterisk above should not be assumed to breed at or even adjacent to the SRWWTP.

Species list adapted from "Bird Checklist of Michigan" (Thayer's Birding Software, 1999) considering habitat provided by site and immediately surrounding areas. Nomenclature is based on the 52nd Supplement to the American Ornithologists' Union "Checklist of North American Birds" (2011).

Bird data collected at five different stations over five-minute intervals throughout the day. Survey performed by Michael Carlson from 5:40 AM to 9:21 PM.

X indicates observations made. It should be emphasized that "X" means that the species was observed within the fenceline of the SRWWTP in proximity to the particular impoundment and, unless otherwise noted, not on or in contact with the water or immediately adjacent to the water at a particular impoundment. In many cases, the species was observed flying over the pond, sometimes higher than 200 feet.

Impoundment Designations:

- L Sludge Ponds
- C Clarifiers
- S Secondary Lagoon
- P Primary Lagoon
- D Diked Lagoon

Other Area Designations:

B Bermed Area

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Monday, April 09, 2012

NOTES

- Individual(s) observed flying over the SRWWTP.
- Individual(s) was not observed at or near the water's edge of any of the wastewater treatment ponds and lagoons.
- 3. Individual(s) likely recently arrived migrant(s) or still in the process of migration.
- Around 08:07 one individual was observed to fly north over the western edge of the plain west of the Primary 4. Lagoon and then to then to turn and to fly west-southwest. At 09:20 a flock of 11 individuals was observed to fly north over the bermed area at an estimated height of approximately 100-120 feet above ground surface. All but one individual (which continued to fly north, exiting the SRWWTP) was observed to glide northeast over the bermed area, then to fly east over the bermed area, and then to quickly turn south over the Diked Lagoon and to continue flying over the Primary Lagoon. These birds appeared to be looking at the SRWWTP and, given the gliding, seemed to exhibit interest in the facility or at least to view its potential for feeding on fish. At 11:02 one individual was observed to fly east over the Primary and Secondary Lagoons at an estimated height of approximately 20-30 feet above ground surface. The low flight of this bird was construed to constitute interest in the SRWWTP although no head turning or landing approach was observed. Around 11:26 three individuals were observed to fly west over the Primary Lagoon. Around 11:42 a group of 5 individuals was observed to fly northwest over the Secondary and Primary Lagoons at an estimated height of approximately 100 feet above ground surface. Around 11:56 a group of 7 individuals was observed to fly north over the dogleg of the bermed area, then to fly east over the Diked Lagoon, and then to fly south over the Secondary Lagoon at an estimated height of approximately 100-120 feet above ground surface. Around 19:32 one individual was observed to fly north over the south end of the Secondary Lagoon and the Primary Lagoon at an estimated height of approximately 80-100 feet above ground surface.
- 5. Individual(s) showed no interest in water surfaces of the SRWWTP wastewater treatment ponds and lagoons.
- 6. At 07:15 one individual was observed to fly north silently over the Rouge River and to briefly swerve east and over the west perimeter fence, entering the SRWWTP airspace, in order to avoid a loose flock of Double-crested Cormorants flying south over the Rouge River. Several seconds later the bird was observed to move west, exiting the SRWWTP, and to resume its northwestward course over the river once the flock passed. This individual was viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on the birds due to the pale gray neck and whitish face and whitish marginal coverts which are characteristic of this species.
- At 06:43 two individuals were observed to fly west over the Secondary and Primary Lagoons at an estimated 7. height of approximately 150-175 feet above ground surface. Around 06:50 one individual was observed to fly north-northwest over the Sludge Ponds, the south end of the Secondary Lagoon, and the Primary Lagoon at an estimated height of approximately 150-175 feet above ground surface. At 07:13 three individuals were observed to fly west over the Secondary and Primary Lagoons at an estimated height of approximately 40-50 feet above ground surface. Both birds were observed to assume a landing position over the Primary Lagoon and then to rather abruptly break the approach and to continue flying west. Around 07:18 two individuals were observed to fly southeast over the Primary and Secondary Lagoons at an estimated height of approximately 100 feet above ground surface. At 07:27 one individual was observed to rest on the water surface of the middle of the Primary Lagoon. This bird, which was observed to drink water once, was observed to have slight staining on the lower vent. Around 07:34 presumably the same individual was observed to rest on the water surface of the Primary Lagoon. At 07:39 the same bird was observed to fly off, leaving the Primary Lagoon. Around 07:43 two individuals were observed to fly over the bermed area. At 07:55 a presumed mated pair was observed to fly east and then north over the Primary Lagoon. The pair was observed to continue north over the Diked Lagoon, and then to veer northwest and to land in the dogleg of the bermed area. At approximately 07:56 the pair was

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Monday, April 09, 2012

NOTES

(Continued)

observed to fly west from the dogleg of the bermed area. Around 08:07 two individuals were observed to fly northwest over the Primary Lagoon at an estimated height of approximately 175-200 feet above ground surface. Around 09:04 two individuals were observed to fly north over the south end of the Secondary Lagoon and the Primary Lagoon, and to land and to rest on the mid-slope of the east bank of the Primary Lagoon south of the hoist. At 09:20 the same two individuals were observed on the east bank of the Primary Lagoon. One bird was observed to rest on the ground, while the other bird was observed to repeatedly move its bill from the flanks and uppertail coverts to the same spot on the ground of the mid-slope of the east central bank of the Primary Lagoon approximately 60 feet south of the hoist. Based on this behavior, it was concluded that the bird, presumably a female, was maintaining an active nest by adding down feathers. Around 09:39 two individuals were observed to fly west-northwest over the south clarifier, south end of the Secondary Lagoon and plain south of the Primary Lagoon at an estimated height of approximately 80-100 feet above ground surface. Both birds were observed to slow their flight over the office and to glide as if ready to assume a position for landing in the Secondary Lagoon. Both birds, however, were observed to break their glide and to continue flying northwest, calling. Several minutes later another individual was observed to fly south over the Primary Lagoon at an estimated height of approximately 150 feet above ground surface. Around 09:49 the presumed female seen earlier was again observed to pick at its flanks and vent with its bill and then move its bill to the ground nearby in apparent nest maintenance. (The wildlife specialist later located and photographed a nest with two eggs covered by dry vegetation at this location.) At 09:58 presumably the nesting female was observed to rest and to swim on the water surface of the Primary Lagoon. At 16:03 a presumed mated pair was observed to fly northwest over the Diked Lagoon and bermed area at an estimated height of approximately 50-80 feet above ground surface. Around 19:10 two individuals were observed to call from the bermed area. At 19:12 another individual was observed to fly northwest over the Secondary Lagoon and Diked Lagoon at an estimated height of approximately 50-70 feet above ground surface. This individual was observed to slow its flight and assume a landing position over Station No. 4. The bird was observed to land on the water surface in the middle of the Diked Lagoon, and to slowly swim towards the northwest end. Around 19:17 this same individual was observed to swim on the water surface of the northwest corner of the Diked Lagoon. No oil was observed on the water surface at this location; in fact, the water here was earlier observed to be quite clear. At 19:24 this same individual was observed to call from the water surface of the west end of the Diked Lagoon. This same individual was observed to bathe by submersing its breast and neck five times. The bird was photographed. Despite the relatively close proximity of the wildlife specialist and his shouts and arm flapping, the bird did not move from the water surface, and was still present at 19:28. Around 20:16 a presumed mated pair was observed to fly over the Primary Lagoon, bermed area, and Diked Lagoon at an estimated height of approximately 80-100 feet above ground surface, completely circling the Diked Lagoon at least once. Around 20:28 three individuals were observed to fly south over the Primary and Secondary Lagoons at an estimated height of approximately 80-120 feet above ground surface. Many of the individuals were viewed through the naked eye and binoculars at relatively close range, albeit briefly. Individuals on the water surface were examined at considerable length. Presumably the male of the breeding pair at the Primary Lagoon showed slight staining on the lower vent, and the individual on the Diked Lagoon showed slight staining on the center of the breast, as well as on the vent and undertail. All the other individuals showed no evidence of oil or discoloration, or matted feathers. It should be noted that any oil would likely have been apparent on these birds, due to the white throat-cheek patch, white vent, white femoral tract and rump, and pale breast which characterize this species.

8. At 06:24 one individual was observed to call from the bermed area; this bird was not seen. A presumed mated pair was observed around 06:37 to rest and to swim on the water surface of the Primary Lagoon. The pair was initially observed near the northeast corner of the Primary Lagoon and then minutes later observed at the center of the north end of the lagoon south of the netting. No oil was noted on the surface of the water at this location. Due to poor light conditions and light condensation of water vapor over the water surface of the Primary Lagoon, the plumage of both birds was not seen well enough to detect staining or matting. Thus, no conclusion can be

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Monday, April 09, 2012

NOTES

(Continued)

made concerning the condition of plumage of these two individuals.

- 9. Around 11:56 one individual was observed to fly west over the bermed area, soaring at an estimated height of approximately 200-300 feet above ground surface. Only the underside of this bird was viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been apparent on these birds due to the whitish throat, breast, vent, undertail coverts, and underwing coverts as well as the light red coloration of the tail which generally characterize the plumage of this species.
- At 15:06 one individual was observed to fly rapidly northeast over the east perimeter fence opposite the pumphouse at an estimated height of approximately 40-60 feet above ground surface. This individual was not viewed through binoculars. Due to this fact and the rapid flight, the plumage of the bird was not seen well enough to detect staining or matting. Thus, no conclusion can be made concerning the condition of plumage of this individual.
- Around 06:02 and 09:49 one individual was observed to call from what sounded like the plain west of the 11. Primary Lagoon. Around 07:04 one individual was observed to call from the ground of the plain south of the Primary Lagoon. Around 07:18 one individual was observed to call from the west perimeter road opposite the south end of the Primary Lagoon. Around 07:43 and 10:10 one individual was observed to call from the airspace over the bermed area. At 08:01 two individuals were observed to flush from the plain west of the Primary Lagoon in response to the approach of the wildlife specialist. Both birds were observed to fly west. Around 08:17 one individual was observed to fly east over the plain south of the Primary Lagoon, to land there, and to forage on the ground. Around 08:49 one individual was observed to forage in the grass atop the west bank of the Secondary Lagoon. This bird was observed to have very white underparts. At 09:58 one individual was observed to call from the ground of the plain west of the Primary Lagoon. At 10:03 two individuals were observed to forage in the grass of the plain northwest of the Primary Lagoon. Around 11:06 one individual was observed to call from the bermed area. Around 11:33 one individual was observed to forage in the grass at the top of the southwest bank of the Secondary Lagoon approximately 10-20 feet northwest of the north end of the outfall weir. Around 12:09 one individual was observed to forage on the ground of the plain south of the Primary Lagoon. At 19:29 one individual was observed to flush from the plain west of the Primary Lagoon due to the approach of the wildlife specialist. This bird was observed to fly north. At 20:03 one individual was observed to call from the ground at the intersection of the main north-south road and the east-west road south of the outer slope of the Diked Lagoon. Around 20:54 one individual was observed to call from what sounded like the ground of the plain north of the Primary Lagoon. Around 21:01 one individual was observed to call from the bermed area. Several of these birds were viewed through binoculars, sometimes at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on any these individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white eyebrow (adult only), forehead, throat, collar (adult only), lower breast (adult only), belly, vent, wing stripe, tail tip, and underwing coverts that characterize the plumage of this species.
- 12. Individual heard, but not seen.
- 13. Around 06:02 three individuals were observed to give the nasal ground call, characteristic of this species, from the bermed area, what sounded like the plain north of the Primary Lagoon, and what sounded like the plain west of the Primary Lagoon. At 06:21 one individual was observed to call from the bermed area. Around 20:54 one individual was observed to give its nasal ground call from the bermed area.
- 14. At 06:24 one individual was observed to call from the airspace over the Secondary Lagoon. At 06:32 three individuals were observed to call and to fly over the Primary Lagoon. Around 06:37 two individuals were observed to fly west-southwest over the Primary and Secondary Lagoons at an estimated height of

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Monday, April 09, 2012

NOTES

(Continued)

approximately 100 feet above ground surface. Around 06:50 one individual was observed to fly southwest over the Secondary Lagoon at an estimated height of approximately 75 feet above ground surface. Around 09:04 one individual was observed to fly northwest over the Diked Lagoon and bermed area at an estimated height of approximately 200-250 feet above ground surface. Around 10:19 one individual was observed to soar and to circle at least once over the Primary Lagoon at an estimated height of approximately 75 feet above ground surface. The bird also appeared to turn its head and to look down at the SRWWTP. This behavior was construed to be foraging activity. At 17:52 two individuals were observed to fly southwest over the Primary Lagoon at an estimated height of approximately 250 feet above ground surface. At 18:38 a second year individual was observed to soar and glide back and forth several times over the south perimeter fence at an estimated height of approximately 150 feet above ground surface. This behavior was construed to be acrobatic play in wind, rather than foraging or expression of interest in the Sludge Ponds because no appreciable head turning was observed. At the same time a second second year bird was observed to fly over the clarifiers at an estimated height of approximately 150 feet above ground surface. At 19:00 one individual was observed to soar and glide back and forth several times over the area south of the East Sludge Pond at an estimated height of approximately 100 feet above ground surface. This behavior was construed to be acrobatic play in wind because the bird was not observed to turn its head. Around 19:41 three individuals were observed to acrobat over the plain west of the Primary Lagoon at an estimated height of approximately 100-175 feet above ground surface. Around 19:53 one individual was observed to fly south over the Secondary Lagoon and Sludge Ponds at an estimated height of approximately 150-180 feet above ground surface. Several of these birds, most of which were third and fourth year individuals, were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been very apparent on especially the third and fourth year adults, due to the birds' prominent white plumage on the head, breast, belly, and underwing.

- At 08:55 two individuals were observed to flush from the mid-slope of the southeast bank of the Secondary Lagoon approximately 30 feet south of the east end of the north diagonal boom, due to the approach of the wildlife specialist. Both birds were observed to fly east-northeast. At 10:03 one individual was observed to fly over the plain west of the Primary Lagoon opposite the southwest corner of the lagoon and to land in a tree at the west perimeter fence, where it was observed to call. Around 10:10 one individual was observed to rest in a tree in the bermed area. These birds were viewed through the naked eye and/or binoculars at close to relatively close range. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been apparent due to the pale beige coloration of the underparts and white tips of the tail feathers as well as the pink feet which characterize the plumage of this species.
- Around 09:12 one individual was observed to call from the airspace over the bermed area. Around 09:20 one individual was observed to call from the airspace over the Diked Lagoon. At 09:32 one individual was observed to aerially forage for flying insects over the Secondary Lagoon at an estimated height of approximately 50 feet above ground surface. At 10:37 one individual was observed to call from the airspace over the Secondary Lagoon. Around 11:13 two individuals were observed to call and to aerially forage for flying insects over the bermed area proper at an estimated height of approximately 30-40 feet above ground surface. Around 11:26 two individuals were observed to aerially forage for flying insects over the Primary Lagoon. One individual was observed at an estimated height of approximately 8-15 feet above the water surface while the other was observed approximately 20-50 feet above the water surface. Only one individual was observed to be moving south; the rest of the birds were generally moving north. Several of the individuals seen were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that oil would likely have been apparent on the birds due to the bright white underparts characteristic of the adult plumage of this species.
- 17. Around 10:55 one adult was observed to rapidly fly north over the Primary Lagoon at an estimated height of approximately 6-20 feet above the water surface. This individual was viewed through binoculars, albeit briefly.

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS Monday, April 09, 2012

NOTES

(Continued)

No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been apparent due to the off-white to orange-beige breast, belly, and undertail and wing coverts which characterize the adult plumage of this species.

This species was observed during 53% (24 of 45) of the five-minute survey sessions, making it the most 18. commonly observed species during the April survey. Approximately 9 pairs appear to have territories established at the SRWWTP: 4 along the east perimeter fence (south of southeast gate, north of clarifiers, southeast of pumphouse, north of northeast gate), 1 on the east outer slope of the Diked Lagoon, 1 on the south outer slope of the Diked Lagoon, at least 2 in the bermed area proper, and one in the dogleg of the bermed area. In addition, there appears to be at least three pairs west of the west perimeter fence and one pair east of the east perimeter fence which occasionally visit the SRWWTP. Many of the observations, particularly those made before sunrise, were of individuals singing and calling. Only sight observations are presented here. Around 06:37 one individual was observed to sing from the southeast corner of the Primary Lagoon fence. Around 06:50, 08:17, and 10:48 two individuals were observed to forage in the grass north of the south perimeter fence south of the East Sludge Pond. At 07:01 one individual was observed to fly southeast over the south end of the Secondary Lagoon and to land near a second individual on the isle of grass around the utility pole east of the East Sludge Pond and west of the southeast gate of the perimeter fence. Both birds were then observed to forage. Around 07:04 one individual was observed to forage in the grass at the top of the east bank of the Secondary Lagoon south of the pumphouse. At the same time two individuals were observed to forage in the grass at the top of the southwest bank of he Secondary Lagoon opposite the skimmer at the west junction of the north and south diagonal booms. Also at 07:04 a fourth individual was observed to forage in the grass just west of Station No. 3 at the north central side of the plain south of the Primary Lagoon. At 07:54 one individual was observed to forage on the ground immediately south end of the dogleg of the bermed area. At 08:01 two individuals were observed to rest in the grass of the plain west of the Primary Lagoon. Around 08:07 one individual was observed to fly over the south end of the Primary Lagoon. Seconds later the same bird was observed to forage in the grass on top of the southwest bank of the Primary Lagoon. At the same time a second bird was observed to call from atop a pile of dirt on the mid-slope of the southeast bank of the Primary Lagoon. Around 08:17 a third individual was observed to forage in the grass north of the south perimeter fence and south of the East Sludge Pond. Around 09:39 two individuals were observed to forage in the grass of the plain south of the Primary Lagoon. Around 09:49 one individual was observed to forage at the top of the southwest bank of the Primary Lagoon immediately north (inside of) the fence. At 10:03 one individual was observed to forage in the grass of the plain northwest of the Primary Lagoon. Around 10:19 two individuals were observed to forage in the grass at the top of the southwest bank of the Secondary Lagoon. Around 10:55 one individual was observed to fly west over the Secondary Lagoon at an estimated height of approximately 3 feet above ground surface. Around 11:26 three individuals were observed to fly over the Primary Lagoon. One of these birds was observed to fly approximately 1-3 feet above the water surface. Around 11:33 one individual was observed to forage in the grass between the East and West Sludge Ponds. Around 11:42 two individuals were observed to forage in the grass at the top of the east central bank of the Secondary Lagoon approximately 65 feet south of the pumphouse. At 11:50 one individual was observed to flush from the top of the east bank of the Secondary Lagoon approximately 25 feet south of the pumphouse due to the approach of the wildlife specialist. The bird was observed to fly a short distance to the west and to land on the Mylar ribbon cable at the crest of the northeast bank of the Secondary Lagoon and to balance there in the wind. It should be noted that this portion of the cable only contained nubs of old Mylar ribbons. Around 12:09 only one individual was observed to forage in the grass south of the pumphouse. Around 13:36 one individual was observed to forage in the grass between the East and West Sludge Ponds approximately four feet southwest of Station No. 1 and the wildlife specialist. Many of these birds were viewed through the naked eye and/or binoculars, several at very close to close range. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS

Monday, April 09, 2012

NOTES

(Continued)

that oil would likely have been apparent on these birds, due to the yellow bill, orangish breast and belly, white undertail coverts and white tail spots which are characteristic of the plumage of this species.

- 19. Not a protected migratory bird.
- Most of these individuals were associated with a starling-blackbird night roost in the bermed area. Only sight 20. observations, and chiefly those not associated with the roost, are included here. At 07:25 one individual was observed to flush from the top of the east bank of the Primary Lagoon approximately 65 feet north of OMI 1. This bird was observed to fly north at an estimated height of approximately 10-20 feet above ground surface. Around 09:04 two individuals were observed to fly northeast over the plain west of the Primary Lagoon and the dogleg of the bermed area. Around 09:39 one individual was observed to forage in the grass of the plain south of the Primary Lagoon. At 09:47 three individuals were observed to flush from the northern portion of the plain south of the Primary Lagoon, due to the approach of the wildlife specialist, and to fly southeast. At 09:58 a group of 5 individuals was observed to forage in the grass of the plain west of the Primary Lagoon. Around 10:10 a group of 11 individuals was observed to fly west over the bermed area. Seconds later 5 individuals were observed to fly over the bermed area and to land in a tree in the bermed area, where the birds were observed to rest. Around 10:19 two individuals were observed to forage in the grass at the top of the southwest bank of the Secondary Lagoon. Around 10:29 one individual was observed to fly north over the Primary Lagoon. At 10:37 three individuals were observed to fly over the Secondary Lagoon. Around 10:48 and at 13:58 one individual was observed to sing from the wire near the top of the utility pole east of the East Sludge Pond. (This individual was observed to fly off to the west at 13:59.) At 11:02 one individual was observed to fly over the Primary Lagoon. Around 11:42 one individual was observed to fly over the clarifiers, and to rest on the roof of the shed between the north and south clarifier. This individual had nesting material in its bill, and was possibly building a nest in, or nearby, the shed. Around 19:17 two individuals were observed to fly north over the Diked Lagoon and bermed area. Around 20:07 individuals were observed to be still steadily arriving at the bermed area, including a flock of approximately 300 birds flying in from the east which dove directly into the vegetation of the bermed area proper.
- 21. Around 10:55 one individual was observed to call from the ground or vegetation of the lower to mid-slope of the south central bank of the Primary Lagoon. At 18:03 presumably the same individual was observed to call from what sounded like the vegetation at the west perimeter fence opposite the southwest corner of the Primary Lagoon.
- Around 09:49 one individual was observed to call and to flush from the lower to middle slope of the southeast bank of the Primary Lagoon. The bird was observed to quickly fly west, exiting the SRWWTP. Due to the rapid flight of the bird, the plumage of the bird was not seen well enough to detect staining or matting. Thus, no conclusion can be made concerning the condition of plumage of this individual.
- Around 06:12, 07:34, and 10:19 one individual was observed to sing from the east outer slope of the Diked Lagoon. At 06:32 one individual was observed to sing from, and to rest on, the west perimeter fence opposite the center of the Primary Lagoon. Around 07:43 another individual was observed to sing from the dogleg of the bermed area. At 09:00 two individuals were observed to call from vegetation at the toe of the east outer slope of the Diked Lagoon. Around 09:04, 09:20, and 10:19 presumably a different individual was observed to call, call, and sing, respectively, from the south outer slope of the Diked Lagoon approximately 30 feet southwest of Station No. 4. Around 09:04 another individual was observed to sing from the bermed area. Around 09:12 two individuals were observed to sing from the bermed area. Around 11:06 and 11:56 one individual was observed to sing from the bermed area. Around 12:09 one individual was observed to sing from what sounded like the west central bank of the Secondary Lagoon. Only two birds were actually seen and viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these two individuals. It should be noted that oil would likely have been apparent on these birds, due to the whitish throat, belly, and

SCHAEFER ROAD WASTEWATER TREATMENT PLANT BIRD SURVEY RESULTS Monday, April 09, 2012

NOTES

(Continued)

undertail coverts as well as the pale supercilium and submoustachial stripe which characterize the adult plumage of the eastern race of this species.

- 24. Most of these individuals were associated with a starling-blackbird night roost in the bermed area. Throughout the day, up to approximately 20 to 30 individuals were singing and calling from trees and *Phragmites* in the bermed area. Only sight observations of birds proximal to treatment ponds and lagoons are presented below. Around 07:34 two males were observed chasing each other as they flew west over the Diked Lagoon at an estimated height of approximately 4-8 feet above the water surface. At 09:28 one individual was observed to sing from atop one of the stakes used to support the Mylar ribbon cable at the top of the northeast bank of the Secondary Lagoon approximately 85 feet north of the pumphouse.
- 25. Most of these individuals were associated with a starling-blackbird night roost in the bermed area. Throughout the day, up to approximately 15-20 individuals were singing and calling from trees and *Phragmites* in the bermed area, chiefly the dogleg. Only sight observations of birds proximal to treatment ponds and lagoons are presented below. Around 08:49 one individual was observed to call from the airspace over the Secondary Lagoon.
- At 07:00 one individual was observed to call from the airspace over the Sludge Ponds and Secondary Lagoon. Around 08:49 one individual was observed to call from the airspace over the Secondary Lagoon. Seconds later a second individual was observed to fly north over the Secondary Lagoon at an estimated height of approximately 120 feet above ground surface. Around 09:12 one individual was observed to sing from the bermed area. Around 11:06, 11:21, and 11:56 one individual was observed to call from the airspace over the Diked Lagoon. At 11:22 two individuals were observed at the Primary Lagoon: one flying over and the other calling from overhead. Around 11:42 one individual was observed to fly southwest over the Secondary Lagoon at an estimated height of approximately 50-60 feet above ground surface. At 14:09 one individual was observed to call from the airspace over the Sludge Ponds. Only one or two individuals were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been apparent due to the yellow head, breast, belly, and vent, as well as the white underwing coverts which characterize the alternate plumage of this species.

ANIMAL SIGN OBSERVED

Г	1 Type:	Species:	[C] earlest		7 5		
Į	dropping		☐ certain	_#:	-	☑ fresh	soiled
I	dropping	AMERICAN ROBIN	probable probable	1		relatively frest	h ☐ appears to be oiled
ı	Location	north and afficient	possible	╛		relatively old	no oil apparent
	East and)	north end of base of aerator between		<u> </u>	[old	☐ damaged
Ĩ	fact namb	Vest Sludge Pond, approximately 13 of skimmer tank	Status: NA			very old	From 1 individual(s
Į	i eet north	of skithmer tank] residual	- i i i i i i i i i i i i i i i i i i i
			Based on: NA				Behavior:
ı							perched on aerator
l	Photo #:	Sizing Basis:					perched on aerator
ı	1	nch ruler					
I	Additional	Sign Present: dropping (see Item 2)	Note: Of It				
		- 3.1 (accite dropping (see itel) 2)	Note: Stight sp	latter	pati	tern. Bird obse	erved closeby earlier in
[2	Yype:	Species:	isuivey.	egenerategy.	wym. n		
~	7.		certain	#:		fresh	☐ soîled
	dropping	AMERICAN ROBIN	□ probable □ possible	~12		relatively fresh	
	Location: s	teel beam on ground between East	found before	4		relatively old	no oil apparent
	and West S	Sludge Pond and approximately 4-20	Status: NA	!		old	damaged damaged
	feet north o	f skimmer tank	Status, IVA			very old residual	From 1-2
			Based on: NA		_	residuai	individual(s)
			based on: NA				Behavior:
	Photo #: S	Sizing Basis:					standing
	1	IA					
		ign Present: dropping (see Item 1)					
	, raditional c	ngir resent dropping (see item 1)	Note: Two Ame	erican	Rol	oins observed	here earlier in survey.
3	Type:	Species:		······································	- Parket	The Control of the Co	
_	, ,,	, .	certain	#:		fresh	☐ soiled
	dropping	AMERICAN ROBIN	probable	2		relatively fresh	appears to be oiled
	Location: s	eel gate at top of south central bank	possible			relatively old	no oil apparent
	of East Sluc	ge Pond opposite control gate			ᆜ	old	damaged
	platform	go rond opposite control gate	Status: NA		片	very old	From 1 individual(s)
			Based on: NA		<u> </u>	residual	<u> </u>
			Dased OII. IVA				Behavior:
	Photo #: S	zing Basis:					standing
		ch ruler					
	Additional S	gn Present: none	Nata				
		g	Note:				
4	Type:	Species:	☐ certain				
	burrow	WOODCHUCK		#:		fresh	soiled
			possible	2	片복	relatively fresh	appears to be oiled
	Location: a	proximately 6-8 feet southwest of	☑ found before		片	relatively old old	no oil apparent
	belt skimme	at the top of the bank near	Status: probably	,		very old	damaged
	southeast co	rner of Secondary Lagoon	inactive	,		residual	From NA
		• 0	Based on: no ap	marar			individual(s)
			entrances	Paici	11.111	odification of	Behavior:
		zing Basis:					NA
	none N	4					
	Additional Si	gn Present: none	Note:				
			NOIG.				
5	Туре;	Species:	certain :	4 :		fresh	
Ì	dropping	AMERICAN ROBIN		+. 3 i		relatively fresh	soiled
,			⊠ possible	,		relatively old	☐ appears to be oiled☐ no oil apparent
	Location: gu	ardrail at the top of the southeast	found before				damaged
- 1	bank of Seco	ndary Lagoon approximately 2-3 feet	Status: NA			very old	From 1 individual(s)
- 1	south of nort	end of the guardrail at Station No.				residual	i individual(\$)
	2		Based on: NA				Behavior:
-	Db -4 - 11		_				standing
		ring Basis:				ļ	iding
		h ruler				ļ	
-	Additional Sig	n Present: none	Note:				
-							

ANIMAL SIGN OBSERVED

6	Туре:	Species:	☐ certain	# :	Ē	Ĵ fresh	I□ soiled
	dropping	MALLARD	probable probable	2	Ē	relatively fresh	appears to be oiled
			☑ possible		D	relatively old	no oil apparent
	Location: 2	d segment from west of east portion	☐ found before			old	☐ damaged
	of north diag	onal boom	Status: NA			very old	From 1 individual(s)
Ī] residua!	
			Based on: NA				Behavior:
							standing
l	Photo #: Si	zing Basis:] 3
	none N	4					
	Additional Si	gn Present: none	Note:				
			rioto.				
7	Туре:	Species:	☐ certain	#:	T	fresh	☐ soiled
	burrow	WOODCHUCK	probable	1 ⁷⁷ .	片	relatively fresh	appears to be oiled
			possible	7		relatively old	no oil apparent
	Location: mi	d-slope of east central bank of				olď	damaged
	Secondary L	agoon, approximately 20 feet	Status:			very old	From NA
	nonneast of	east end of north diagonal boom			Ĺ	residual	individual(s)
			Based on:				Behavior:
	Dh. 4 . (0)						NA
		zing Basis:					
	none NA						
	Additional Sig	gn Present: none	Note:				
0	Mark.				-		
8	Type:	Species:	⊠ certain	#:		fresh	soiled
	scat	CANADA GOOSE	probable	_3		relatively fresh	appears to be oiled
	Location: tor	of the east central bank of the	☐ possible ☐ found before	4	HÀ	relatively old	no oil apparent
	Secondary La	agoon, approximately 135 feet south	Status:	<u> </u>	늗	old very old	damaged
	of pumphous	e	Olaius.		H	residual	From 1 individual(s)
		-	Based on:			Toolada	Behavior:
							unknown
		ing Basis:	1				
		h ruler					
	Additional Sig	n Present: none	Note:				
-	Maria and more more and the fifth of the second state of the secon						
9	Type:	Species:	☐ certain	#:		fresh	soiled
	burrow	WOODCHUCK	probable	1		relatively fresh	appears to be oiled
	Location: uni	oor mid plans of aget aget to the large	possible		\boxtimes	relatively old	no oil apparent
	Secondary I a	per mid-slope of east central bank of agoon approximately 75 feet south of	Ctoture perore		닏	old	damaged
Ì	pumphouse	igoon approximately 75 leet South of	Status: possibly active	у	⊨	very old residual	From NA
	pampilodoc						individual(s)
			Based on: Not	observ	ea	previously	Behavior:
†	Photo #: Siz	ing Basis:	1				NA
		ne- too steep to place					
	Additional Sig	n Present: none	Note: Opening	does n	ot o	appoor to hove	been very recently
			excavated.	aues n	Ot e	sphear to nave	been very recently
200			EXCAVALED				. 1
10	Type:	Species:		4.		froch	
- 1		Species: WOODCHUCK	certain	#: 3		fresh relatively fresh	soiled
	burrow	WOODCHUCK		#: 3		relatively fresh	appears to be oiled
	burrow Location: und	WOODCHUCK Ier southwest foundation of	☐ certain ☐ probable ☐ possible ☐ found before	3			appears to be oiled no oil apparent
	burrow Location: unc pumphouse a	WOODCHUCK Ier southwest foundation of t top of northeast bank of	☐ certain ☐ probable ☐ possible ☑ found before Status: probabl	3		relatively fresh relatively old	appears to be oiled
	burrow Location: und	WOODCHUCK Ier southwest foundation of t top of northeast bank of	☐ certain ☐ probable ☐ possible ☐ found before Status: probabl active	3 у		relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From NA
	burrow Location: unc pumphouse a	WOODCHUCK Ier southwest foundation of t top of northeast bank of	☐ certain ☐ probable ☐ possible ☐ found before Status: probabl active Based on: Woo	y dchuck		relatively fresh relatively old old very old residual	appears to be oiled no oil apparent damaged
	burrow Location: und pumphouse a Secondary La	WOODCHUCK der southwest foundation of t top of northeast bank of goon	☐ certain ☐ probable ☐ possible ☐ found before Status: probabl active Based on: Woo burrow entrance	y dchuck e at co		relatively fresh relatively old old very old residual oserved at ete slab once	appears to be oiled no oil apparent damaged From NA individual(s)
	burrow Location: und pumphouse a Secondary La Photo #: Sizi	WOODCHUCK Ier southwest foundation of t top of northeast bank of	☐ certain ☐ probable ☐ possible ☐ found before Status: probabl active Based on: Woo	y dchuck e at co		relatively fresh relatively old old very old residual oserved at ete slab once	appears to be oiled no oil apparent damaged From NA individual(s) Behavior:
	burrow Location: unc pumphouse a Secondary La Photo #: Siz none NA	WOODCHUCK Iter southwest foundation of It top of northeast bank of Iter goon Item Basis:	☐ certain ☐ probable ☐ possible ☐ found before Status: probabl active Based on: Woo burrow entrance during Septemb	y dchuck e at co		relatively fresh relatively old old very old residual oserved at ete slab once	appears to be oiled no oil apparent damaged From NA individual(s) Behavior:
	burrow Location: unc pumphouse a Secondary La Photo #: Siz none NA	WOODCHUCK der southwest foundation of t top of northeast bank of goon	☐ certain ☐ probable ☐ possible ☐ found before Status: probabl active Based on: Woo burrow entrance	y dchuck e at co		relatively fresh relatively old old very old residual oserved at ete slab once	appears to be oiled no oil apparent damaged From NA individual(s) Behavior:

ANIMAL SIGN OBSERVED

	Туре:	Species:	☐ certain	#:	☐ fresh	soiled
1	dropping	AMERICAN ROBIN	probable probable	1	relatively fresh	
			☑ possible	1	☑ relatively old	no oil apparent
1	Location: to	p of footing of fencing around	found before	1	oid	☐ damaged
	pumphouse	transformer deck at northwest come	r Status: NA		☐ very old	
ı	of pumphou	se at stairs			residual	From 1 individual(s
			Based on: NA		Licoladai	Dohavia
						Behavior:
	Photo #: S	zing Basis:	-			perched above on top of fence
	none N					top or lence
	Additional Si	gn Present: none				
	Additional S	gn Fresent, none	Note: Significar	nt splatt	ter pattern indica	tes bird perched above
40	Tura	To :	on top of fence			
12	Туре:	Species:	certain	#:	☐ fresh	☐ soiled
	burrow	WOODCHUCK	probable	1	relatively fresh	appears to be oiled
	Location: or	tside (1 foot east of) east side of	possible] [relatively old	□ no oil apparent
	Primary Lag	oon fence, approximately 8 feet north	☑ found before		old	☐ damaged
	of utility note	near northeast corner of Primary	Status: probabl inactive		⊠ very old □ residual	From NA
	Lagoon	near northeast comer of Filmary				individual(s)
	2390011		Based on: entra	ance is	much reduced	Behavior:
	Photo #: Si	zing Basis:	and subsided.			NA
	none NA					
		gn Present: none	Moto: Likely		1 10 40	
		511 1 1000Hz. 110HG	Note: Likely cor	inected	to Item 13.	
13	Туре:	Species:	certain			
, ,	burrow	WOODCHUCK	probable	··· H	fresh	soiled
	DULLOW	WOODCHUCK	possible	1	relatively fresh relatively old	appears to be oiled
	Location: mi	d-slope of northeast bank of Primary	☑ found before	1	old	no oil apparent
	Lagoon, appr	oximately 15 feet northwest of utility	Status: probably	, l	very old	☐ damaged From NA
	pole		active		residual	individual(s)
			Based on: entra	ince abi	pears to have	Behavior:
			possibly been m	nodified	in recent past	NA
l í		ring Basis:			,	
i ⊢	none NA					
1	Additional Sig	gn Present: none	Note: Likely con	nected	to Item 12.	<u> </u>

		a, product primary to the program of the agreement of the foreign of the program				
. [1	Species:	certain	#: [] fresh	soiled
. [Species: WOODCHUCK	probable probable		☑ relatively fresh	soiled appears to be oiled
	shallow dig	WOODCHUCK	probable possible	1	relatively fresh relatively old	appears to be oiled
	shallow dig Location: up	WOODCHUCK per mid-slope of the east bank of the	probable possible found before	1	relatively fresh relatively old old	☐ appears to be oiled☐ no oil apparent☐ damaged
	shallow dig Location: up Primary Lago	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest	probable possible	1	X relatively fresh ☐ relatively old ☐ old ☐ very old	appears to be oiled no oil apparent
	shallow dig Location: up	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest	□ probable □ possible □ found before Status: inactive	1 [2 [appears to be oiled no oil apparent damaged From 1 individual(s)
	shallow dig Location: up Primary Lago	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest	probable possible found before	1 [2 [appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	shallow dig Location: up Primary Lago of the utility p	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole	□ probable □ possible □ found before Status: inactive	1 [2 [appears to be oiled no oil apparent damaged From 1 individual(s)
	shallow dig Location: up Primary Lago of the utility p	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis:	□ probable □ possible □ found before Status: inactive	1 [2 [appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
	shallow dig Location: upperimary Lago of the utility p Photo #: Siz none NA	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis:	☐ probable ☐ possible ☐ found before Status: inactive Based on: filled	1 E	☑ relatively fresh ☐ relatively old ☐ old ☐ very old ☐ residual e vegetation	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown
	shallow dig Location: upperimary Lago of the utility p Photo #: Siz none NA	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis:	☐ probable ☐ possible ☐ found before Status: inactive Based on: filled Note: 3.5 inches	1 E	✓ relatively fresh relatively old old very old residual vegetation May have been	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown
	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none	☐ probable ☐ possible ☐ found before Status: inactive Based on: filled Note: 3.5 inches another burrow e	1 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	☑ relatively fresh □ relatively old □ old □ very old □ residual □ vegetation May have been a	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species:	□ probable □ possible □ found before Status: inactive Based on: filled Note: 3.5 inches another burrow e	1 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	✓ relatively fresh relatively old lold very old residual vegetation May have been fresh	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: unknown aborted start of □ soiled
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK	□ probable □ possible □ found before Status: inactive Based on: filled Note: 3.5 inches another burrow e □ certain □ probable □ prossible	1 CCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCCC	✓ relatively fresh relatively old lold very old residual vegetation May have been fresh relatively fresh	□ appears to be oiled □ no oil apparent □ damaged From 1 individual(s) Behavior: unknown aborted start of □ soiled □ appears to be oiled
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the	□ probable □ possible □ possible □ found before Status: inactive □ Based on: filled □ possible □ possible □ found before □ possible □ possible □ found before □ possibl	1 E C C C C C C C C C C C C C C C C C C	✓ relatively fresh relatively old lold very old residual vegetation May have been fresh	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp Primary Lago	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK	□ probable □ possible □ found before Status: inactive Based on: filled Note: 3.5 inches another burrow e □ certain □ probable □ prossible	1 E C C C C C C C C C C C C C C C C C C	✓ relatively fresh relatively old lold residual very old vegetation May have been fresh relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the	□ probable □ possible □ possible □ found before Status: inactive Based on: filled	1 E C C C C C C C C C C C C C C C C C C	✓ relatively fresh relatively old lold residual very old vegetation May have been e. fresh relatively fresh relatively old lold very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged From 1 individual(s)
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp Primary Lago	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the	□ probable □ possible □ possible □ found before Status: inactive □ Based on: filled □ possible □ possible □ found before □ possible □ possible □ found before □ possibl	1 E C C C C C C C C C C C C C C C C C C	✓ relatively fresh relatively old lold residual very old very old residual vegetation May have been e. fresh relatively fresh relatively old lold very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp Primary Lago utility pole	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the on, approximately 4 feet west of the	□ probable □ possible □ possible □ found before Status: inactive Based on: filled	1 E C C C C C C C C C C C C C C C C C C	✓ relatively fresh relatively old lold residual very old very old residual vegetation May have been e. fresh relatively fresh relatively old lold very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged From 1 individual(s)
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp Primary Lago utility pole Photo #: Siz	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the	□ probable □ possible □ possible □ found before Status: inactive Based on: filled	1 E C C C C C C C C C C C C C C C C C C	✓ relatively fresh relatively old lold residual very old very old residual vegetation May have been e. fresh relatively fresh relatively old lold very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp Primary Lago utility pole Photo #: Siz none NA	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the on, approximately 4 feet west of the ling Basis:	□ probable □ possible □ possible □ found before Status: inactive □ sased on: filled □ possible □ possible □ found before Status: unknown □ sased on: NA	with live	✓ relatively fresh relatively old lold very old residual vegetation May have been e. fresh relatively fresh relatively old old very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown
15	shallow dig Location: upp Primary Lago of the utility p Photo #: Siz none NA Additional Sig Type: shallow dig Location: upp Primary Lago utility pole Photo #: Siz none NA	WOODCHUCK per mid-slope of the east bank of the on, approximately 5 feet northwest ole ing Basis: In Present: none Species: WOODCHUCK per mid-slope of the east bank of the on, approximately 4 feet west of the	□ probable □ possible □ possible □ found before Status: inactive Based on: filled	with live	✓ relatively fresh relatively old lold very old residual vegetation May have been e. fresh relatively fresh relatively old old very old residual	appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown aborted start of soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: unknown

ANIMAL SIGN OBSERVED

16	S Type:	Species:	⊠ certain	_ # :		fresh	☐ soiled
	nest	CANADA GOOSE	☐ probable	_1	D	relatively fresh	
			possible	_		relatively old	no oil apparent
1	Location: up	pper lower slope of east central bank				old	☐ damaged
	hoist	agoon approximately 75 feet south o	Status: active			very old	From NA
ı	HOISE					residual	individual(s)
			Based on: Fen	nale ob	se	rved adding	Behavior:
			down to nest e	arlier i	n s	urvey. Two	NA
		zing Basis:	eggs present.			•	
	9 inc	ch ruler					
l	Additional Si	gn Present: none	Note: Approxim	nately	Q fo	et from water!	s edge. 2 eggs. Nest
			unattended in a	afterno	n	ct nom water	s edge. Z eggs. Nest
17	Type:	Species:	☐ certain	#:] fresh	soiled
	dropping	AMERICAN ROBIN	☐ probable	10		relatively fresh	appears to be oiled
		L	Dossible possible]		relatively old	no oil apparent
	Location: co	ntrol panel at top of southeast bank	☐ found before	<u> </u>		old	damaged
	of Primary La	igoon located approximately 8 feet	Status: NA			very old	From 1 individual(s)
	Lagoon fence	southeast gate of the Primary	D		<u> </u>	residual	
	Lagoon lence	;	Based on: NA				Behavior:
	Photo #: Siz	ring Basis:	_				perched atop panel
		th ruler					box
		gn Present: none	Note: Two days				
		gri i resetti. Hone	splatter pattern.	pings	on	concrete pad e	xhibit moderate
18	Type:	Species:	Address of the superior and the body of the superior and	and the second second second second			
	1 - ' 1	STRIPED SKUNK		#:		fresh	soiled
			possible possible	~60		relatively fresh relatively old	appears to be oiled
	Location: To	o of south bank of Primary Lagoon	☐ found before			old	no oil apparent damaged
	approximately	/ 6 -36 inches north of the Primary	Status: NA			very old	From 1 individual(s)
	Logoop fan				一	residual	grioni i individual(s)
	Lagoon fence				يا	i c siuudi	
	Layoon tence		Based on: NA		يبا	residual	Behavior:
			Based on: NA		ניין	Tesiuudi	Behavior: foraging
	Photo #: Siz	ing Basis:	Based on: NA		يبا	Tesiuudi	Behavior: foraging
	Photo #: Siz	ing Basis:				Tesidudi	
	Photo #: Siz	ing Basis:	Based on: NA Note:			residual	
	Photo #: Siz none NA Additional Sig	ing Basis: n Present: none	Note:				
19	Photo #: Siz none NA Additional Sig	ing Basis: n Present: none Species:	Note:	#:		fresh	foraging Soiled
19	Photo #: Siz none NA Additional Sig	ing Basis: n Present: none	Note;	1		fresh relatively fresh	foraging soiled appears to be oiled
19	Photo #: Siz none NA Additional Sig Type: dropping	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD	Note; ☐ certain ☐ probable ☑ possible	1		fresh relatively fresh relatively old	foraging soiled appears to be oiled no oil apparent
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the	Note: ☐ certain ☐ probable ☑ possible ☐ found before	1		fresh relatively fresh relatively old old	foraging soiled appears to be oiled no oil apparent damaged
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and	Note; ☐ certain ☐ probable ☑ possible	1		fresh relatively fresh relatively old old very old	foraging soiled appears to be oiled no oil apparent
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the	Note: ☐ certain ☐ probable ☑ possible ☐ found before	1		fresh relatively fresh relatively old old	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s)
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	1		fresh relatively fresh relatively old old very old	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s Photo #: Sizi	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis:	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	1		fresh relatively fresh relatively old old very old	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s)
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s Photo #: Sizi inct	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: in ruler	Note: certain probable possible found before Status: NA Based on: NA	1		fresh relatively fresh relatively old old very old residual	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s Photo #: Sizi inct	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: in ruler	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA	1		fresh relatively fresh relatively old old very old residual	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
19	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east orimmediately s Photo #: Sizi 11 inct Additional Sig	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: in ruler in Present: none	Note:	1 utter pa	M D D	fresh relatively fresh relatively old old very old residual	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior:
19	Photo #: Siz none NA Additional Sig Type: dropping Location: atomorth bank of 25 feet east orimmediately s Photo #: Sizi inched Additional Sig	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none	Note: certain probable possible found before Status: NA Based on: NA Note: Slight splate certain probable pro	1 utter pa	IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	fresh relatively fresh relatively old old very old residual	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled
19	Photo #: Siz none NA Additional Sig Type: dropping Location: atomorth bank of 25 feet east orimmediately s Photo #: Sizi inched Additional Sig	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: in ruler in Present: none	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA Based on: NA Note: Slight splate ☐ certain ☐ probable	1 utter pa	otte	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled appears to be oiled
19	Photo #: NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s Photo #: Sizi 11 inch Additional Sig Type: dropping	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence Ing Basis: In ruler In Present: none Species: AMERICAN ROBIN	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA Based on: NA Note: Slight splate ☐ certain ☐ probable ☐ possible	1 utter pa	atte	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent no oil apparent
19	Photo #: NA Additional Sig Type: dropping Location: atonorth bank of 25 feet east orimmediately s Photo #: Sizi inch Additional Sig Type: dropping Location: groupsing Location: groupsing	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none Species: AMERICAN ROBIN und at mid-slope of northeast bank	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA Based on: NA Note: Slight splate ☐ certain ☐ probable ☐ possible ☐ found before	itter pa		fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent damaged damaged damaged damaged
19	Photo #: NA Additional Sig Type: dropping Location: atonorth bank of 25 feet east orimmediately s Photo #: Sizi inch Additional Sig Type: dropping Location: groupsing Location: groupsing	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none Species: AMERICAN ROBIN und at mid-slope of northeast bank	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA Based on: NA Note: Slight splate ☐ certain ☐ probable ☐ possible	itter pa	ette	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old very old	foraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent no oil apparent
19	Photo #: NA Additional Sig Type: dropping Location: atonorth bank of 25 feet east orimmediately s Photo #: Sizi inct Additional Sig Type: dropping Location: group of Primary Lag	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none Species: AMERICAN ROBIN und at mid-slope of northeast bank goon approximately 10 feet south of	Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: NA Based on: NA Note: Slight splate ☐ certain ☐ probable ☐ possible ☐ found before	itter pa	ette	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent damaged From 1 individual(s)
20	Photo #: NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s Photo #: Sizi 11 inch Additional Sig Type: dropping Location: groupof Primary Lagnetting	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence Ing Basis: In ruler In Present: none Species: AMERICAN ROBIN Lind at mid-slope of northeast bank goon approximately 10 feet south of	Note: certain probable possible found before Status: NA Based on: NA Certain probable possible found before found before Status: Na probable possible found before Status: NA probable possible possible found before Status: Probable possibl	itter pa	ette	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old very old residual	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent damaged From 1 individual(s)
20	Photo #: Siz none NA Additional Sig Type: dropping Location: ato north bank of 25 feet east o immediately s Photo #: Sizi inch Additional Sig Type: dropping Location: group of Primary Lagnetting Photo #: Sizi	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none Species: AMERICAN ROBIN und at mid-slope of northeast bank goon approximately 10 feet south of	Note: certain probable possible found before Status: NA Based on: NA Certain probable possible found before found before Status: Na probable possible found before Status: NA probable possible possible found before Status: Probable possibl	itter pa	ette	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old very old residual	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent damaged From 1 individual(s)
20	Photo #: NA Additional Sig Type: dropping Location: atomorth bank of 25 feet east orimmediately s Photo #: Sizince dropping Location: group frimary Lagnetting Photo #: Sizince NA	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none Species: AMERICAN ROBIN und at mid-slope of northeast bank goon approximately 10 feet south of the graph of the south of the same contains the same co	Note: certain probable possible found before Status: NA Based on: NA Certain probable possible found before found before Status: Based on:	atter pa	otte	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old very old residual	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing
20	Photo #: NA Additional Sig Type: dropping Location: atomorth bank of 25 feet east orimmediately s Photo #: Sizince dropping Location: group frimary Lagnetting Photo #: Sizince NA	ing Basis: n Present: none Species: RED-WINGED BLACKBIRD p old concrete brick at top of the the Primary Lagoon, approximately f northwest corner at fence line and outh of the fence ing Basis: n ruler n Present: none Species: AMERICAN ROBIN und at mid-slope of northeast bank goon approximately 10 feet south of the graph of the south of the same contains the same co	Note: certain probable possible found before Status: NA Based on: NA Certain probable possible found before found before Status: Na probable possible found before Status: NA probable possible possible found before Status: Probable possibl	atter pa	otte	fresh relatively fresh relatively old old very old residual rn. fresh relatively fresh relatively old old very old residual	oraging soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: perched atop fence soiled appears to be oiled no oil apparent damaged From 1 individual(s) Behavior: standing

ANIMAL SIGN OBSERVED

	dropping	AMERICAN ROBIN	probable	#:	Σ	☐ fresh ☑ relatively fresh	
	Location: flo	oor at east end of TVT bridge at east	possible	_		relatively old	no oil apparent
	central hank	of Primary Lagoon		9	_ <u> </u>	old	☐ damaged
	ocitical balls	COLLINIARY EAGOOR	Status: NA		늗	very old residual	From 1 individual(s)
			Based on: NA				Behavior:
	Photo #: Si	zing Basis:					standing
	12 in	ch ruler					
State of the last	<u>L</u>	ign Present: none	Note:				
22	Type:	Species:	☐ certain	#:		fresh	soiled
	dropping	AMERICAN ROBIN	□ probable	4	\boxtimes	relatively fresh	
	Location: ro	also of mid also see the second	possible possible	_		relatively old	no oil apparent
١.	Primary Lag	cks of mid-slope of south bank of oon approximately 12 feet north-	found before			3 0 0	damaged
	northeast of	weather station	Status:		늗	very old residual	From 1 individual(s)
		sourier olddorf	Based on:		1	i residual	Behavior:
							standing
		zing Basis:					Stationing
		ch ruler					
	Additional Signature	gn Present: none	Note: Birds ob:	served	nea	arby earlier in s	SUrvev
-							
23	Туре:	Species:	☐ certain	#:		fresh	soiled
	burrow	WOODCHUCK	probable	1	\boxtimes	relatively fresh	appears to be oiled
ŀ	Location: lov	ver mid-slope of the west Primary	possible	4		relatively old	no oil apparent
1	Lagoon anni	oximately 45 feet north of the	⊠ found before	<u> </u>		old	☐ damaged
	southwest co	rner	Status: active			very old residual	From NA
		.,,,,,,	Based on: First	found			individual(s)
			survey. Recen	i iouna it execu	i in i	viarch 2012	Behavior:
	Photo #: Siz	zing Basis:	durvey. Necess	ii exca	vate	u sailu.	NA
	none NA						
-	Additional Sig	gn Present: none	Note:				
-							
1		Species:	☐ certain	#:		fresh	Soiled
	shallow dig	STRIPED SKUNK	probable	~35		relatively fresh	appears to be oiled
ŀ	Location: top	of the west bank of the Secondary	possible			relatively old	no oil apparent
	Lagoon, annr	oximately 35-45 feet northeast of	☑ found before Status: NA	i		old	☐ damaged
	southeast gat	te in Primary Lagoon fence	Status, IVA		H	very old residual	From 1-2
	ŭ	,goon /c//co	Based on: NA		1	7001444	individual(s)
			20000011111				Behavior: foraging
- !		ing Basis:	1				Toraging
- II	none NA						
		n Present: none	Note: 1-2 inches	s in dia	ame	ter; approxima	tely 1 inch deep.
,	and a second construction of the second construc	The same of the sa					
,	***************************************	Species:		#:		fresh	☐ soiled
25	Туре:	Species: COMMON GRACKLE	certain probable	#: 2		fresh relatively fresh	soiled appears to be oiled
25	Type: dropping	COMMON GRACKLE	certain probable possible			relatively fresh relatively old	☐ soiled ☐ appears to be oiled ☐ no oil apparent
25	Type: dropping Location: top	COMMON GRACKLE of headwall south of skimmer at	☐ certain ☐ probable ☑ possible ☐ found before			relatively fresh relatively old old	appears to be oiled
25	Type: dropping Location: top west end of so	COMMON GRACKLE	certain probable possible			relatively fresh relatively old old very old	appears to be oiled no oil apparent
25	Type: dropping Location: top	COMMON GRACKLE of headwall south of skimmer at	☐ certain ☐ probable ☑ possible ☐ found before Status: NA			relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From 1 individual(s)
25	Type: dropping Location: top west end of so	COMMON GRACKLE of headwall south of skimmer at	☐ certain ☐ probable ☑ possible ☐ found before			relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From 1 individual(s) Behavior:
25	Type: dropping Location: top west end of se Lagoon Photo #: Siz	COMMON GRACKLE of headwall south of skimmer at outh diagonal boom in Secondary ing Basis:	☐ certain ☐ probable ☑ possible ☐ found before Status: NA			relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From 1 individual(s)
25	Type: dropping Location: top west end of se Lagoon Photo #: Siz none NA	COMMON GRACKLE of headwall south of skimmer at outh diagonal boom in Secondary ing Basis:	☐ certain ☐ probable ☑ possible ☐ found before Status: NA			relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From 1 individual(s) Behavior:
25	Type: dropping Location: top west end of se Lagoon Photo #: Siz none NA	COMMON GRACKLE of headwall south of skimmer at outh diagonal boom in Secondary ing Basis:	☐ certain ☐ probable ☑ possible ☐ found before Status: NA			relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From 1 individual(s) Behavior:

ANIMAL SIGN OBSERVED

	burrow	EASTERN COTTONTAIL	probable probable	71		relatively fresh	soiled appears to be oiled
			□ possible		ĪĒ	relatively old	no oil apparent
	Location: so	outh side of utility pole at top of	☑ found before		厅		damaged
	southwest ba	ank of Secondary Lagoon	Status: unkno	wn	15	very old	From NA
į						residual	individual(s)
			Based on: NA		! ***	3	Behavior:
							NA
l	Photo #: Si	zing Basis:	_				110
	none N						
I	Additional Si	gn Present: none	Nata				
	, taattioriar of	gir i reseitt. Hotte	Note:				
27	Туре:	Species:		-			
'		T	⊠ certain	#:	Ļ	fresh	soiled
	track	CANADA GOOSE	☐ probable ☐ possible	12	上	relatively fresh	
	Location: so	uth side of road between East	found before	-		relatively old	no oil apparent
	Sludge Pond	and Secondary Lagoon	Status: NA	<u> </u>		very old	☐ damaged
	approximatel	y 12 feet northwest of Station No. 1.	Otatas. 11/1			residual	From 1-2
			Based on: NA				individual(s) Behavior:
į							unknown
	Photo #: Siz	ring Basis:	-				unknown
		h ruler					
	Additional Sig	n Present: none	Note: Impressi	one m	100	in mud outee	equently hardened.
	`	,	Note, impressi	ons ma	aue	in mua, subse	quently hardened.
28	Туре:	Species:	☐ certain	Д.		l.	
		AMERICAN ROBIN	probable	#:	H	fresh relatively fresh	soiled
			possible	2	片	relatively riesh	
	Location: ged	otextile on east bank of Primary	☐ found before	1	H	old	no oil apparent damaged
	Lagoon appro	eximately 4 feet and 7 feet north of	Status: NA		Ħ	very old	From 1 individual(s)
	TVT bridge	•				residual	_ i ioiii i iiidividuai(s)
			Based on: NA				Behavior:
	D						stand
		ing Basis:					
	none NA						
	AUGITIONAL SIG	n Present: none	Note:				
	Additional Olg		ľ				
				and the Control of the Control			
		Species:		#:	_	fresh	soiled
		Species:	probable probable	#:		relatively fresh	appears to be oiled
	Type:	Species:	probable possible	#:		relatively fresh relatively old	appears to be oiled no oil apparent
		Species:	probable possible found before	#:		relatively fresh relatively old old	appears to be oiled no oil apparent damaged
	Type:	Species:	probable possible	#:		relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From
	Type:	Species:	probable possible found before Status:	#:		relatively fresh relatively old old	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s)
	Type:	Species:	probable possible found before	#:		relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From
	Type:		probable possible found before Status:	#:		relatively fresh relatively old old very old	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s)
	Type:	Species: ing Basis:	probable possible found before Status:	#:		relatively fresh relatively old old very old	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s)
	Type: Location: Photo #: Size	ing Basis:	☐ probable ☐ possible ☐ found before Status: Based on:	#:		relatively fresh relatively old old very old	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s)
	Type:	ing Basis:	probable possible found before Status:	#:		relatively fresh relatively old old very old	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s)
	Type: Location: Photo #: Siz	ing Basis: n Present:	☐ probable ☐ possible ☐ found before Status: Based on: Note:			relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s) Behavior:
	Type: Location: Photo #: Siz	ing Basis:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain	#:		relatively fresh relatively old old very old residual	☐ appears to be oiled ☐ no oil apparent ☐ damaged From individual(s) Behavior:
<u>.</u>	Type: Location: Photo #: Siz Additional Sig Type:	ing Basis: n Present:	☐ probable ☐ possible ☐ found before Status: Based on: Note:			relatively fresh relatively old old very old residual fresh relatively fresh	appears to be oiled no oil apparent damaged From individual(s) Behavior:
<u>.</u>	Type: Location: Photo #: Siz	ing Basis: n Present:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable			relatively fresh relatively old old very old residual	□ appears to be oiled □ no oil apparent □ damaged From individual(s) Behavior: □ soiled □ appears to be oiled □ no oil apparent
<u>.</u>	Type: Location: Photo #: Siz Additional Sig Type:	ing Basis: n Present:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible			relatively fresh relatively old old very old residual fresh relatively fresh relatively old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged
<u>.</u>	Type: Location: Photo #: Siz Additional Sig Type:	ing Basis: n Present: Species:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible ☐ found before Status:			relatively fresh relatively old old very old residual fresh relatively fresh relatively old old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From
<u>.</u>	Type: Location: Photo #: Siz Additional Sig Type:	ing Basis: n Present: Species:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible ☐ found before			relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged
	Type: Location: Photo #: Siz Additional Sig Type: Location:	ing Basis: n Present: Species:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible ☐ found before Status:			relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
	Type: Location: Photo #: Siz: Additional Sig Type: Location:	ing Basis: n Present: Species:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible ☐ found before Status:			relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
	Type: Location: Photo #: Sizing Additional Sigent Type: Location: Photo #: Sizing Additional Sigent Type:	ing Basis: n Present: Species:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible ☐ found before Status: Based on:			relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)
	Type: Location: Photo #: Siz: Additional Sig Type: Location:	ing Basis: n Present: Species:	☐ probable ☐ possible ☐ found before Status: Based on: Note: ☐ certain ☐ probable ☐ possible ☐ found before Status:			relatively fresh relatively old old very old residual fresh relatively fresh relatively old old very old	appears to be oiled no oil apparent damaged From individual(s) Behavior: soiled appears to be oiled no oil apparent damaged From individual(s)

APPENDIX B

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	 Besult
120	22	1		Gravel road, secondary and primary lagoons, dike lagoon, and berm area.	94	Flew away. A few birds flew away or to another pond after horn blasts, so repetitive action was required.

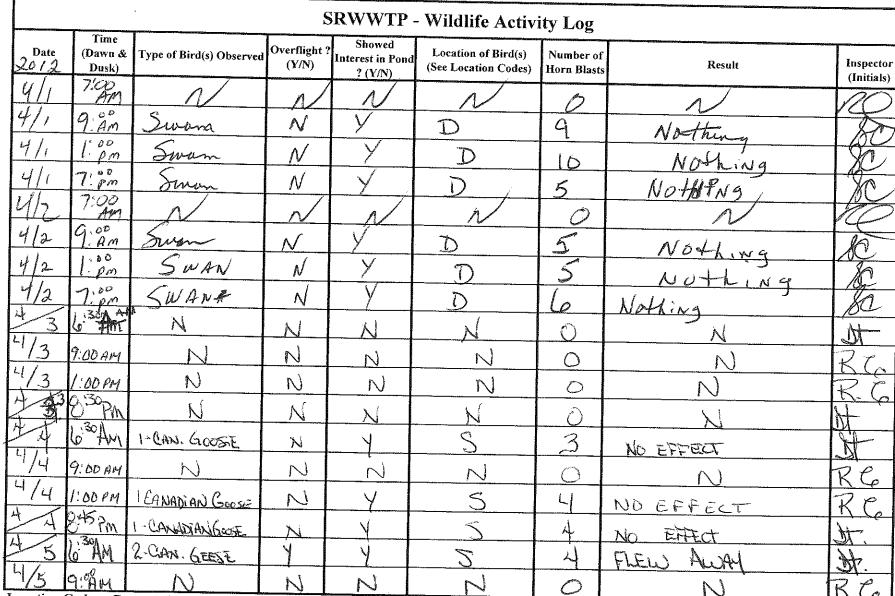
^{*}During dawn and dusk inspections
**However, cannon was effective

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

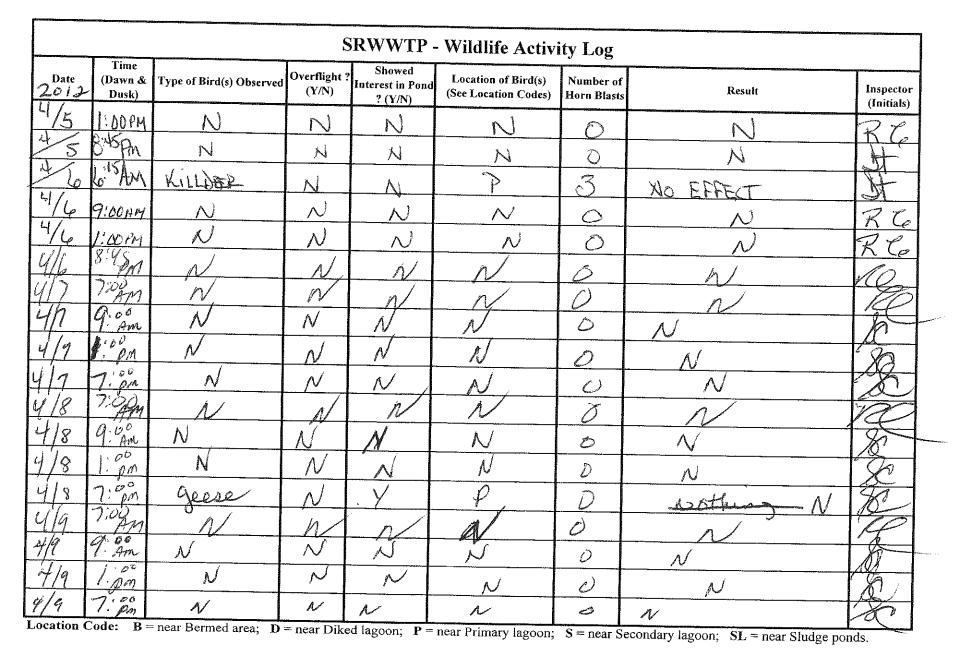
Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	30 days	30 days	Canadian geese, heron, killdeers and ducks	None

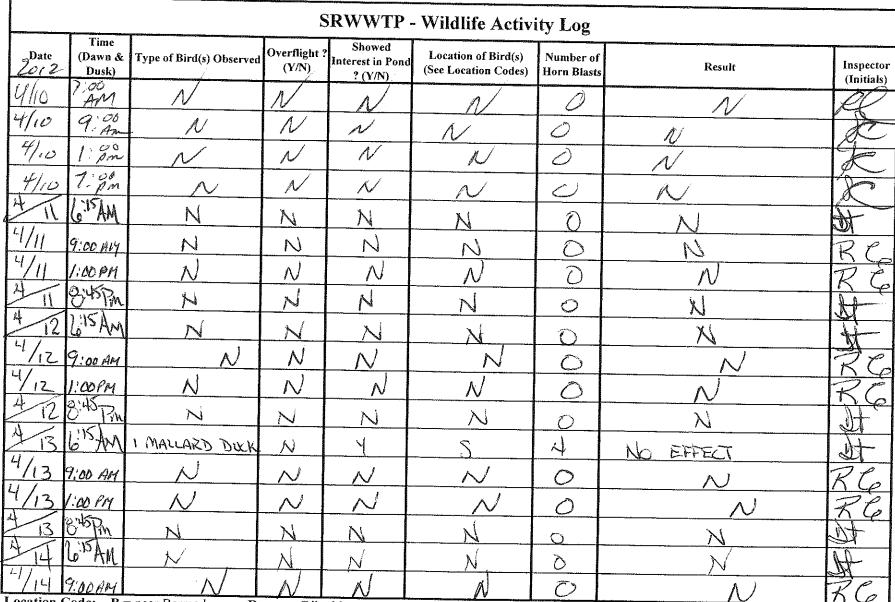
SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	Vot Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.

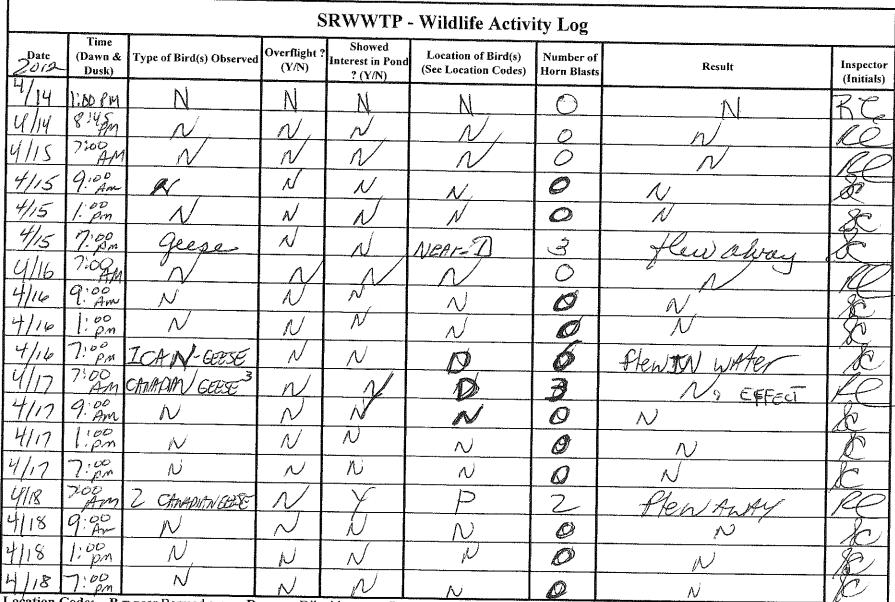


Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.





Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.



Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

		***	S	RWWTP -	- Wildlife Activ	ity Log		
Date 2012	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
4 19	Who ?	GEESE (CONADIAN)	X	7	S	H	NO EFFECT	3
	9:00 AM	\sim	\sim	\sim	\sim	0	N	RC
4/19	1:00 PM	\mathcal{N}	\mathcal{N}	\mathcal{N}	\mathcal{N}	0	\mathcal{N}	RC
<u>4</u> A	8'34PM	N	N	N	Ν	0	N	\tag{\tau}
4 20	6,30 AM	1-(CA)GOOSE	7	1		4	NO EFFECT	
	9:00 AM	\sim	\sim	\sim	\sim	0	\sim	RC
	1:00 PM	\mathcal{N}	\sim	N	\sim	0	\sim	RC
	830 PM	7	×	N	Ν	0	N	よ
42	6.30 Am	1-MALL DOCK	N	VÍ		4	NO ETFECT	<u>M</u>
	9:00 Am	\sim	\sim	\sim	N	0	\mathcal{N}	RG
4/21	1:00 PM	N	N	N	\sim	0	\mathcal{N}	RC
	0:30 _{PM}	N	N	N	N	0	N	DT-
	6:30 /m	7	7	N	N	0	N	-tt.
	9:00 AM	\sim	N	\sim	N	0	\sim	RY
4/22	1:00 PM	N	N	N	N	0	N	RE
4/22	8'39n	N	N	N	N	0	N	Re
4/23	7:00 AM	N	N	1/	n	0	n/	A
4/23	9:00 AM	N	N	\sim	N	0	econdary lagoon: SL = near Sludge p	80

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

TT-T-1			S	RWWTP	- Wildlife Activ	ity Log		
2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
4/23	1:00 pm	N	N	N	N	D	N	C
1/23	7.00	N	N	N	N	0	N	12
4/24	7:28m	\sim	\mathcal{N}	N	N	a	N	14
4/24	9:00 Am	N	N	N	N	0	N	, Sec
4/24	1:00	N	N	N	N	0	N	8
4/24	7:00	N	N/	N	N	0	N	80
4/25	7 82 1711	N	N	N	\mathcal{N}	0	\mathcal{N}	120
4/25	9:00	N	N	<i>N</i>)	Λ,			X
7/25	1:00 1:00	N	N	N	N	0	N	1
7/25	7:00 Pm	N	N	N	N	0	N	X
4/26	7.00 AM Q:00	\sim	N	\sim	\sim	0	\mathcal{N}	K
1/24	1. Am	N	N	N	\mathcal{N}	0	N	15
4/26	1. Pm	N,	N	$N_{/}$	N	0	N	K
1/26	7:00 pm	N	N	\mathcal{N}	N	0	N	NC.
1 27	M	HERON, KILLATER	N	N	3	2	TIEW AWAY - NO EXTECT	ti
1/27	7.60 HM	\sim	N_{j}	<u> </u>	\sim	0	N	RC
4/27	1:00 PM	N	$-\Lambda$	N	\mathcal{N}	0	\mathcal{N}	KG
1-24		9.00 M	N		N	0	Secondary Jagoon: SI = near Sludge no	the

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

		2	S	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	- Wildlife Activ	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspecto (Initials)
4-28	Playm	1 DUCK - 1 GOOSE	N	Ý	S D) ()	NO ETTECT	
	9:60 AM	N	N	N	2	0	N	RC
4/28	1:00 PM	7	N	N	7	0	7)	RE
100	9:00 PM	N	7	N	7		N	te
	C-00/AM	2	N	7	N	0	\sim	刘
	9:00 AM	\mathcal{M}	N	N	N	0	N N	RE
4/29	1:60 PM	N	Ν	N		0	N	RG
4-29	9:00 PM	N	N	la de la companya della companya del	S. S. S. S. S. S. S. S. S. S. S. S. S. S	0	N	
130	600AM	N	7	N	N		N	at
	9:00 AM	Ŋ	\sim	\mathcal{N}	N	0	\mathcal{N}	RG
4/30	1:00 PM	\mathcal{N}_{i}	N	N	\sim	0	\mathcal{N}	RC
4/30	9500 PM	\sim	1/	\mathcal{N}	\mathcal{N}	0	\mathcal{N}	A
							a part Province	
							<u></u>	
NO SECTION OF THE SEC		and the second					econdary lagoon: SI = near Slud	

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.





Inspe	T		Status of	Deterrent S	ystems	Wildico			
			епсе	Bank Cover	Noise Cannon	Wadille	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
4/1	7:00 AM 7:66 7:PM	- , **	N	Y	y	N	N/	1	K
	9:40 9:4M	· · ·	N	7	7	N	\sim	N	80
4/1	1.60 1. PM	N	N	4	y y	N	N	N	£
4/2	7×0 AM	N	N	4	Y	1	N	N	
······································	7:00 0:00	Ν	N	У	4/	N	N	A	14
4/2	AM 1, DD	N	N	<u> </u>	4	N	N	N	Sold State of the state of the
4	PM 30 AM	N 1	7	7	7	N	N	N	E
. /	0,30 О ЬМ	N	N	-	- '	N	X	N	H
1/2	9:09M	N	N	Y	<u> </u>	N	N	N	H
73	1:09 _M	N	2	Y	-	N N	N N	N	RC
KA	Ø AM	N	N	4	Y	1-CANADIAN GOOSE	N	5N	R C
	SP NEW	N	N	1	<u> </u>	1-CANADIAN GOOSE	N	5 1	9 1 21

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspe			Status of	Deterrent S	ystems	Wildlife Observations					
		F	ence	Bank Cover	Noise Cannon	Whatte	Deservations				
Date 2012	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials		
4/4	91 °AM		N	Y	Y	N					
\ \ \	1:08M	N	N	Y	4	I CANADIAN GOOSE	N	N	R C		
4	CO AM		N	1	Y	2 CAMADINA GEESE		SN	RC		
i a	0 45 O PM		N	4	7	N GESE	N	31	世		
1/5	9:0RM	N	N	7		N	N	N	加		
	1: 0 RM	N	<u>N</u>	Y	У	N	N	N	KC		
4	10 AM 845 PM	N	N	_ \	7	Kihhotek		2	KC		
	O'Y PM	N	N	У	V	1/	N	PN	其		
// [N	Ν	΄ Υ	Y	N		1	K		
16	1:09 _{PM}	N	N	Y	Y	, <u>, , , , , , , , , , , , , , , , , , </u>	\sim	3	RC.		
1/7	AM .	N	1/	1	4		\sim	\mathcal{N}	KE		
	7 PM	N	N	/γ	У/	N	N	1/			
4/2	7. p0 7. AM	N	N	Y	Y	N		\mathcal{N}	87		
	1. PM	N	N	Y	Y	6 /	N	N I			

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





lnspe	CHOM		Status of	Deterrent S	ystems	Wildlife Observations					
			епсе	Bank Cover	Noise Cannon	MUDB AA	Observations				
Date <u>2012</u>	,	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials		
4/8	7:00 AM 1:00 1:00		N N	4	4	/\/	N	0/			
4/	9:00 AM	N		γ √	7 '	N	N	N	A.		
4/8	1.00 PM	N	N	7	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N	N	N	D		
y/q	7:00 AM	N	N	4	4	1/	N	\sim	X		
,	7:00 9:00	N	N	<u>X</u> (N	N	n	100		
1/9	7- AM 1,00 PM	N	N	Y	<u> </u>	N	N	N			
1/12	7:00 AM	N	1	<u> </u>	7	N .	N	N	10		
1//0	7.00 PM	N	N	4	7/	N	1	N	B		
1/10	9.00 1.00	M	N	X		N			30		
, ,	PM LUS AM	<u> </u>	N	X	Y	N	N	R	Zó-		
	S'AM	7	N	1	- - - - - - -	N	X	N S	di di		
'Yes" (Y)		/ \		1_1	<u> </u>	N		N	\		

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspe	ction		Status of	Deterrent S	ystems	Willer			
		F	епсе	Bank Cover	Noise Cannon		Observations		
Date 2012	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N. or Type Observed and action taken ³)	Location	Inspecto (Initials
4/11	9:09 _M		7	<u> </u>	Υ	N	N		-77
4/	1:00 PM		N		<u> </u>	N	N	N	RC RC
1/ -	O AM PM		7	1	1	N	N	N	M C
11,	9:08m		7	7	4	N	X	N	1
/12	. O ^O PM		N		7	N	N	N	RC
4	6 AM	N	N	4	7	1-Muax	N	N	$R\zeta$
-	8:45M	N	N	Υ	Y	1-MALLARD DUCK	N	2-N	the
113 1	9: PRM	\sim	$-\mathcal{N}$	Y	7	N	N	X	17.50
	/:0°Рм 1 :15	N	<u> </u>	У	Y	<u>A</u>	1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	KC Dr
' / I	8 45 PM		N	¥	<u> </u>	N	1/	<i>V</i>	76
		N	$\frac{N}{N}$	4	- Y	\mathcal{N}	N	N	
/14	AM I: OPM		N	7	7	\mathcal{N}	\mathcal{N}	N	26
у,			escription of)	<u> </u>	N. A. C. C. C. C. C. C. C. C. C. C. C. C. C.	N	N	RC

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	7		Status of	Deterrent S	ystems	Wilair.	2.1		
_			ence	Bank Cover	Noise Cannon	AAUGHE	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	1 13	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
4/15	7:00 AM 7:00 PM	N	N	XY	×Y	N	N	N	RP
4/15	9.00 1. AM	N	N	У	ý	N	N a s	N	
. 1	1: PM 7:00 AM	$\frac{N}{N}$	N N.	X	X	N.		N	
4/16	7:00 PM	N	N	- - 	V	N	N	N	KC
+116	9,00 1 AM	N	N	Y	1	N	N	N	SC P
10/10	7:00 AM	N	1	y V	<u> </u>		N	N	X
4/17	7.00 PM	N	N	义		N	N	1	K
+/17	9:00 1:00 PM	N	N	Y Y	- - - - - - - - - -	N	N	N	E
1110 -	7% AM	N	N	4	y <u>y</u>	N 1/	N	N	RC
	7.00 PM	N	N	ý	y!	U	N	N	SO S

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

q:\excel\rouge\Srumn oil management

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	LUUII		Status of J	Deterrent S	ystems	Wildlife Observations				
		F	епсе	Bank Cover	Noise Cannon	SUDILA	Ubservations			
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials	
41,8	7.00 1.00		N_{\perp}	Y_	Y	N			6	
77	J. PM		N_{\perp}	<u> </u>	У	N	N	17	No.	
19	6 AM		77	7	7	CANDIAN GOESE	N	SW	A.L	
	9: 00 AM	-	7	Y	7	N	N	N	THE	
119	// °PM	N	N	Ý	Y	\sim \sim \sim	N.	N	RC	
40	6 ¹³⁰ AM	N	N	<u> </u>	4	1-CAN- GOOSE	N	N	KC	
,	83 _M	N	N	4	1	N	7/	2 N	W-	
1/20	9:09m 1:09m		\mathcal{N}	<u> </u>	<u> </u>	N	N	\mathcal{N}	RY	
4//	30 AM	N	N	<u> </u>		N	\sim	N	RC	
	3.30 PM	N	7	7	7	1-MALLARD DOCK	V.	511	世	
1/2	7:00 _{AM}	N	N	Y	Y	N	N		M	
121	00 _{PM}	N	N	Υ	4	n/	\sim	N	KG	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

gliexcelimine Structo oil management

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspection Status of Deterrent Systems					ystems	NET LEGISLA				
Date 2012		Fence		Bank Cover	Noise Cannon	Wildlife Observations				
		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)	
4 22	6.30 8.30 PM	N	N	1/100	64	N	N	N.	-1/-	
1/	9.09 _M	\sim	N	<i>y y</i>			N	1	2	
122	1:00 _{PM} 7:00		N	Y	Y	$\frac{\mathcal{N}}{\mathcal{N}}$	N	N	RC	
4/23	7.60 7. PM	N	N	4	<i>y</i>	N	N	N	10	
4/23	9:00 1:00	N	N	Y	У	N	N	N		
	7:00 AM	N	N	Y	У	N	N	N		
124	7 PM	N	N	7	7		N	1/		
1/24	9.00 1.00	N	N	Υ	У	V	N	N		
	PM POD AM	N	N	- - - - - - - - - -	<u> </u>	N	N	N		
100	-200	N	N	y ^t	y/	\mathcal{N}		N		

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspection Status of Deterrent Systems				Deterrent S	ystems				
Date 2012		Fence		Bank Cover	Noise Cannon	Wildlife Observations			
		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
4/25	9.00 1.00 PM	7	N	X	X	N	N		Van
И.	フロ AM	N	N		<i>y</i>		N	N	X
V24	7'60 PM	N	N	Y	4	N	N	N	126
424	AM E AM PM	N	N	4	Y	N	1		
	1.00	N	\mathcal{A}		4	N	N	N	为
27	9: PM	N	N	7	7	HERON, KILL DEEZ	N	SN	the
<i>/</i> / / / / /	i; [©] AM	N	N	Y	Ý	W	N	N	1
/	PM	N	N	<u> </u>	Y	N	N	N	AC RE
28	AM PM	7 7	7 7	7	<u> </u>	1 Day - 1600SE	N	£	H
170 F	:09m	N	2	4	7	N	N	N	#
Yes" (Y) e	· OPM	N	N	Y	Y	N	N	$\frac{N}{N}$	KC RY

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





SRWWTP DAILY WILDLIFE DETERRENCE INSPECTION LOG SHEET

Inspe	CHOH		Status of J	Deterrent S	ystems	11/21/20			
		F	ence	Bank Cover	Noise Cannon	Wildlife	Observations		
Date	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
¥ 00	G AM		N	Y	¥.	N	i		
1/	G O O PM		N	1	Y	7	N	N	The last
1/29	9:09AM		N		4	N	A	N	
J.	∕: [©] PM COM		<i>N</i> .	<u> </u>	<u>Y</u>	N	N	N	R Co
^y 30	9500 PM	N	1	6	+ (/	N	N	N	DE.
1/2	7:09M	W	7)	4	4		N	N	
1/30	1:00 PM	N	N	Ÿ	Y	$\frac{N}{N}$	N	N	RC
	АМ						N	\mathcal{U}	RG
	РМ								
	AM								
	РМ								·
	AM PM		ALEXANDER OF THE PROPERTY OF T						
	PM			I					

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon **Ponds** Y or Location of Uncontained Oil2) Lagoon (or "NA" if not applicable) (Initials) (Y or N) 2012 (Y or N) (Y or N) (Y or N) 7:00 .00 NA 0.00 NA AM 1.00 N NA 7:06 AM NA PΜ 9:00 NA 00 N 130 M AMPM 9:00 AM 1.00 PM 16.30 N AM W NA

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

	ection	Any recove	rable oil not	captured by	skimmers? 1			
Date 2 6/2	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
4/4	9:00 AM	١,	2	Ń	7		NA	RC
2\ /	1:00 PM		<u>N</u>	<u>N</u>	N	Y	NA	RC
4/	Q:45		N	N	N	<u> </u>	Nich	1
<u> </u>	8-75 рм	N	N	N	N	Ý	NA	I W
4/5	9:00 AM	N	N	N	2	Y	NA	RC
	/:00 PM	N	N	7	N	Y	ACA	TO P
¥ //	LIS AM	N	N	N	N	7	NA.	M-
6	845m	N		N	N	Y	1th	12
1/,	9:00 am	N	\sim	N	N	M	NA	RC
/6	/: 00 PM	N	\mathcal{N}	N	N	Y	NA	17 2
11/2	7:06 AM	h	4/	1/	1/	1/	201	5
71/	7:00 PM	N	N.	N	N	V /	NA	K
4/	9:00 AM	N	N	N	N		NA	105
117	1:00 PM	N	N	$\overline{}$	/w		NA	10

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).

Insp	ection T	Any recove	rabie oil not	captured by	skimmers?			
Date 2014	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
4/8	7:00 AM	A	N	N	N		Mafferman	RC
; /	a -00	Δ	N	<u> </u>	$N_{/}$		NA	
t/8	DD PM	N	N	N	$\frac{N}{N}$	Y y	NA	K
1/2	7.00 AM	. /	n	1	in/	10	NA	100
1 161	7.00 PM	4/	N	1	N	47	NA	太
1/2	9.00 1.00	N	N,	N	N	У	NA	A
17	7:06	N	N	N	N_{\perp}	y	NA	Z
1/10	7,00	7	N	N	N	<i>y</i> ,	M	R
	9 ed AM	N		N	N		WA.	So
10	1:00 PM	N	N	N	N	X	NA	12
	1.45	N	N	****	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		NH	
/\\ \	2:45	N		N	N		NA	世
	U V PM		N	N	$N \perp$	<u> </u>	Xtt-	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection !	Any recove	rable oil not	captured by	skimmers?			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspect (Initial
4/1	9:00 AM		N	N	N	Y	NA	RC
/ //	1:00 PM	\mathcal{N}_{-}	\mathcal{N}	\mathcal{N}	\mathcal{N}	Y	NA	RI
4	615 AM	7	7		N	Y	NA	
	8-45 PM	2	2	N	7	Y	NA	
4/5	9:00 AM	\mathcal{N}	\mathcal{N}	N	\sim	Y	NA	RO
	1:00 PM	\mathcal{N}	\mathcal{N}	N	N	Υ	NA	24
4/	6 S AM	N	N	N	7	<u></u>	NA	1
	8:45 PM	N	N	N	7	¥	Note	W.
1/2	9:00 AM	N	N	N	N	Y	NA	17
/13	1:00 PM	\mathcal{N}	\mathcal{N}	\mathcal{N}	\mathcal{N}	У	NA	K C
4	65 AM	N	N	N	N	Y	NA	A C
<u> </u>	8.45 _{PM}	N	N	N	N	Y	NA	
1/	9:00 AM	N	N	\mathcal{N}	N	7	NA	TO P
114	1:00 PM	N	N	N	N	Ż) , , ,	7

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NF corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

lnsp	ection	Any recove	rable oil no t	captured by	skimmers?			
Date 7 012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspect (Initial
Alic);00 _{AM}		N	N	N	У	M	R
$\frac{11}{2}$	7:00 PM	N	N	N	N	X (NA	1/20
4,5	9.00 AM	N	N	N	N	<i>J</i>	DA-	1 B
Nation 1	1:00 PM	N	N	N	N	5/	NA	2
1/16	7:00 AM	N	N	Λ	N	14	a At	12
11/0	7:00 PM	N	N	N	7	y /	NA	B
16	9:00 AM	N	N	\mathcal{N}	\mathcal{N}	y	NA	1
)! OD PM	\mathcal{N}	N	\mathcal{N}	N	, 1	NA	100
1/17	وه (د ۱۳۵	N	N	N	1	4	M	La
	700 PM	Ν	N	N	N	γ	NA	100
1/17	9:00 AM	N	N	N	N	У	NA	SC.
///	/ PM	N	N	N	N	V	NA	The second
1/10	7:00 AM	\mathcal{N}	N	N	N	1	1 AL	
// 0	7.00 PM	N	N	N	N	V	NA	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection 1	Any recove	rable oil not	captured by	skimmers?			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspect (Initial
4/18	9:00 AM	· · · · · · · · · · · · · · · · · · ·	N	7	N	У	NA	E
	1.00 PM	\sim	N	Ν	Ν	У	NA	TR
4	630 AM	7)	1	N	7		~ XVA	W-
	8:30 PM	N	N	N	7	4	NA	14
7/10	9:00 AM	N	\sim	Ν	N		NA	RC
1/19	<i> :00</i> рм	N	N	\mathcal{N}	N	Y	NA	RO
4/00	6.20 VW	N	N	N	N	¥	XH	JIT.
40	<u>වු</u> න _{PM}	N	N	N	N	Ý	W	1
1/2	9:00 AM	\mathcal{N}	N	\mathcal{N}	\mathcal{N}	У	NA	RZ
120	/:00 PM	N	N	\mathcal{N}	\mathcal{N}	У	NA	7
4/01	(-50 AM	N	N	N	N		NA	
	වි.පිට PM	N	N	N	N	Y	NA	4
1/21	9:00 AM	N	N	N	N	4	NA	DP
161	1:00 PM	N	N	\mathcal{N}	N	y	1/2	DE

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

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Inspe	ection	Any recove	rable oil not e	captured by	skimmers?			<u> </u>
Date	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
4/22	630 AM	7	N	N	N		W	#
/ ll	8.30 PM	N	N	\mathcal{N}	N	y	NA	12
-1/	9:00 AM	N	N	N	N	14	NA	20
122	/:00 PM	N	N	N	N	Y	NA	PP
4/23	7:00 AM	N	N	N	N	y I	NA	W.
* '	7: PM	N	Ν	N	N	У /	NA	8
4/23	9; " AM	N	N	/	N	У	NA	2
//23	PM	N	N	N	Ν	У	NA	130
4/24):00 AM	N,	N	N	N	V I	NA	
1101	7:00 PM	N	N	N	N	У'	NA	20
1/24	9:00 AM	N	\mathcal{N}	N	N	Y	NA	E
647	/. PM	N	N	N	N	Y	NA	377
1he	7:00 AM	N	N	N	N	V	a At	1
160	7:00 _{PM}	\sim	N	N	N	14	NA	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

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Inspe	ection	Any recove	rable oil not	captured by	skimmers? 1			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
1/5	9:00	N	N	N	N	Y	NA	85
	9/:00 PM	N	N	N	N	<u></u>	NA	80
1/26	7:00 AM	N	N	Λ	1	4	NA	
	7.00 PM	N	N	N	N	4	NA	8
126	9:00 AM	. N	N	N	N	Y	NA	为
126	1. 60 PM	N	\mathcal{N}	\mathcal{N}	1	y	NA	125
	00) AM	N	N	N	N		NH	W.
	1 [™] PM	N	7	N	N	Y	NA	M
/3	1.00 AM	N	\sim	\mathcal{N}	\sim	У	NA	27
/27	COO PM	N	N	_/\	\mathcal{N}	y	NA	20
	O AM	N	N	N	N	Y	NA	10-1
- 40	M PM	N	N	N	7	4	NA.	
/20	7:00 AM	N	N	N	N	Y	NA	RE
128	'.'00 PM	N	N	N	N	V	NA	200

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Date Inspector Time Lagoon Lagoon (Y or Location of Uncontained Oil2) Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) 2017 (Y or N) (Y or N) (Y or N) 00 PM19:00 AM N 29 1:00 PM 600 AM 4200 9.00 AM 130 1:00 PM AM PM AM PM AM PM:

FORM SRWWTP 1.01 DATE: 2/25/2001

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).



MID 08773843/

April 16, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: March 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The March monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the March wildlife survey report by MEC Environmental Consulting, and the operators' inspection logs. Two carcasses were found: an adult Eastern Cottontail near the northeast corner of the East Sludge Pond, and a Meadow Vole at the top of the southeast bank of the Secondary Lagoon just north of the belt skimmer. The Meadow Vole carcass appeared to be oiled. These carcasses will be discussed in the separate report.

Please contact me at (313) 845-3217 if you have questions on the information in this report.

Very truly yours

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDNRE

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR March 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Wildlife Survey	Appendix A
Inspection Summary and Report Sheets	Appendix B

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period March 1 through March 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

A Wildlife Survey was conducted on March 14, 2012 and a copy of the report is provided in Appendix A. Inspection reports show seasonal activities observed in the general area, and no significant issues at the site were identified. Except, two carcasses were found: an adult Eastern Cottontail near the northeast corner of the East Sludge Pond, and a Meadow Vole at the top of the southeast bank of the Secondary Lagoon just north of the belt skimmer. The Meadow Vole carcass appeared to be oiled. These carcasses will be discussed in the separate report.

On several occasions of geese were observed using one of the treatment plant impoundments, and were scared off with the air horn. The birds flew or ran away after horn blasts, so persistent hazing with the air horn was necessary.

The summary of daily inspection findings is provided in Appendix B. Copies of the inspection reports are also provided in Appendix B. No repetitive use of the treatment ponds and lagoons was observed in the March inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in March. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures

taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.3 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in March 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In March, there were observations of geeses overflight or around the Bermed area. As reported, the birds flew away on its own or after horn blasts, so persistent hazing with the air horn was necessary. Activities within SRWWTP fence are summarized in Appendix B.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of March 2012.

APPENDIX A

Wildlife Survey

MEC ENVIRONMENTAL CONSULTING

VIA COURIER

April 16, 2012

Mr. James E. Earl Severstal Dearborn, LLC. 14661 Rotunda Drive Post Office Box 1699 Dearborn, MI 48120-1699

Subject:

Schaefer Road Wastewater Treatment Plant: 2012 Wildlife Survey #1

(P. N. 00330)

Dear Jim:

I am very pleased to present the enclosed letter report for the subject project in partial fulfillment of your Purchase Order No. 592351. This survey constitutes the monthly bird survey in accordance with your Continuing Emergency Measures (CEM) Workplan in response to EPA Administrative Order Docket No. R7003-5-00-001.

The March survey was completed on Wednesday, March 14, 2012. A total of 45 sets of five-minute observations were made from 05:51 to 20:53 at five different stations located at significant vantage points at the Schaefer Road Wastewater Treatment Plant (SRWWTP). Observations were made at this frequency in order to ensure a complete and scientifically sound inventory, to ensure quality assurance of the data collected, and to evaluate allegations of wildlife utilization of the impoundments. Observations were both visual and aural. Visual observations were made using Swarovski EL 10 x 42 power binoculars. The location of the five stations designated by MEC Environmental Consulting, which have been used in previous surveys and will continue to be used in subsequent surveys, is presented in the first enclosed table.

Weather conditions varied over the period, and were influenced primarily by a strong high pressure system centered over Georgia, and a low pressure system centered over the Atlantic coast with associated cold and warm fronts extending west through the mid-Atlantic states and northwest through the Midwest, as well as a weak low pressure system with associated cold front extending north into central Ontario, and warm and cold fronts extending through the Great Plains and the Rockies. Barometric pressure, based on radiobroadcast readings from Detroit Metro Airport, was 30.11 in.-Hg and steady at 05:00, 30.15 in.-Hg and rising at 08:00, 30.16 in.-Hg and falling at 9:00, 30.16 in.-Hg and falling at noon, 30.04 in.-Hg and falling at 17:00, 30.03 in.-Hg and steady at 19:00 and 20:00. Relative humidity, also based on radio broadcast National Weather Service data, was 72% at 05:00, 67% at 08:00, 55% at 09:00, 44% at 17:00, and 52% at 20:00. Sky conditions were clear to mostly clear throughout the period, except from approximately 16:00 to 20:00 when skies were partly cloudy. Temperatures ranged from 37° F around 05:40 and 06:00, to 44° F around 07:00 and 08:14, to 48° F around 09:18, to 61° F around 12:54, to approximately 77° F around 17:00, to approximately 75° F around 18:20, and then to 71° F around 19:11, to 62° F around 20:11, and to 61° F around 20:48. Winds were generally out of the southsoutheast throughout the period, except briefly out of the north around 06:00, west around

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06:30, and for brief periods in the afternoon and evening out of the west-southwest. Wind speed gradually increased throughout the period, from approximately 0-1 mph until midmorning, to 5-10 mph until around 11:00, to 10-15 mph, with gusts to 20 mph until approximately 19:00 when speed diminished to approximately 5-10 mph. There was no precipitation. A waning half moon (last quarter) was observed high in the south sky until approximately mid-morning. There were numerous small puddles and muddy sections of road due to extensive rains two days previously. Sunrise was at 07:46; sunset was at 19:39.

A total of 18 bird species was observed within the fenceline of the SRWWTP. This species total is two species lower than the 2000-2011 March mean of 20. Recent prolonged south winds and near record high temperatures have brought numerous avian migrants into the region, including both waterfowl and songbirds (passerines) 1-2 weeks early, Although the night before the survey was not particularly a good night for bird migration because of cold and warm fronts to the south and calm winds, a greater variety and number of birds was expected due to the previous week's warm temperatures. However, relatively few birds were observed within the SRWWTP fenceline, and only one individual was observed in, on, or immediately adjacent to a treatment pond or lagoon. This information indicates that the habitat modifications and deterrents in-place at the SRWWTP are effective.

One non-human mammalian species was observed during the survey: Eastern Cottontail (*Sylvilagus floridanus*). At 06:04 two Eastern Cottontails were observed by spotlight to forage in the vegetation in the plain south of the East Sludge Pond near the south perimeter fence. At 13:17 presumably a different individual was observed to flush from vegetation on the east side of the West Sludge Pond In response to the approach of the wildlife consultant, and to quickly run north on the strip of land between the East and West Sludge Ponds. Only the rabbit's hindquarters, including a pure white tail, were observed. At 16:47 presumably a different individual was observed to flush from a dense stand of grass on the lower slope of the west central bank of the Primary Lagoon approximately 10 feet south of the hoist. The mammal was observed to very quickly run north along the mid-slope. The coat of this rabbit was not seen well.

One amphibian species was observed during the survey: Western Chorus Frog (*Pseudacris triseriata*). Approximately 5 individuals were observed to vocalize in the bermed area proper around 06:23, 06:32, and 09:01. Around 10:22, the calls of Western Chorus Frogs in the bermed area proper were observed to have grown louder, and involved an estimated 12 to 20 individuals. At 11:15 approximately 6 Western Chorus Frogs were observed to call from the dogleg of the bermed area. Around 18:47 vocalizations of Western Chorus Frogs from the bermed area proper from at least 20 individuals was almost deafening. Around 19:48 and 20:29 at least 10 Western Chorus Frogs were still calling in the bermed area proper. None of these frogs were seen.

The entire shoreline of each impoundment was systematically checked at least once during the day. Only the shorelines of the Primary Lagoon (except the north end under the net), Diked Lagoon, sludge ponds (except for the inaccessible west side of the West Sludge Pond) and the south side of the Secondary Lagoon, however, were walked due to steep slopes. The rest of the shorelines of the impoundments were searched from top of grade and other angles using binoculars. Animal sign observed during this search is summarized in the third enclosed table. Photographs, including those of animal sign, are enclosed.

Mr. James E. Earl - April 16, 2012 page 3

Two carcasses were found: an adult Eastern Cottontail (*Sylvilagus floridanus*) ensnared in excess netting near the northeast corner of the East Sludge Pond, and a Meadow Vole (*Microtus pennsylvanicus*) at the top of the southeast bank of the Secondary Lagoon just north of the belt skimmer. The Meadow Vole carcass appeared to be oiled. These carcasses will be discussed later in separate reports.

If you have any questions regarding this report please call me at (248) 585-3800. Thank you for choosing MEC Environmental Consulting for your wildlife management needs.

Sincerely yours,

MEC ENVIRONMENTAL CONSULTING

Michael E. Carlson Principal

enclosures

Wednesday, March 14, 2012

Common Name	Scientific Name	Maximum		,	٩re	а	K.	Notes
Common Loon	Gavia immer	Number	L	С	<u>S </u>		D E	3
Pied-billed Grebe	Podilymbus podiceps		-	┞┼	_	4	\bot	
Horned Grebe	Podiceps auritus		<u> </u>	- -	_	\downarrow	_	
Double-crested Cormorant	Phalacrocorax auritus		<u> </u> _	-		4	4.	
American Bittern	Botaurus lentiginosus		<u> </u>	<u> </u>	_	4	_	
Great Blue Heron *	Ardea herodias				_		<u> </u>	
Great Egret *	Ardea alba			_ _	4	\downarrow		
Snowy Egret	Egretta thula				\perp	_		
Green Heron *	Butorides virescens			_	4	\bot	_	
Black-crowned Night-Heron *	Nycticorax nycticorax			_	\downarrow	_		
Yellow-crowned Night-Heron	Nyctanassa violacea				1		$oldsymbol{\perp}$	
Glossy Ibis	Plegadis falcinellus				\downarrow	\perp	_	
Turkey Vulture	Cathartes aura				\perp	_	<u> </u>	
Snow Goose	Chen caerulescens	**			\bot	_		
Cackling Goose	Branta hutchinsii		_					
Canada Goose *	Branta canadensis		_		\perp	L		
Mute Swan *		9		X	X		Х	
Tundra Swan	Cygnus olor		\perp					
Nood Duck *	Cygnus columbianus							
Gadwall	Aix sponsa							
American Wigeon	Anas strepera							
American Black Duck *	Anas americana							
Mallard *	Anas rubripes					Γ		
Blue-winged Teal *	Anas platyrhynchos	5					X	2, 3, 4,
Northern Shoveler	Anas discors						П	
Northern Pintail	Anas clypeata			T				
	Anas acuta		T					
Green-winged Teal Canvasback	Anas crecca							
Redhead	Aythya valisineria		T					
	Aythya americana							
Ring-necked Duck	Aythya collaris						7	
Greater Scaup	Aythya marila		T	\top				
esser Scaup	Aythya affinis		T	1				
ong-tailed Duck	Clangula hyemalis		T			\neg		
ufflehead	Bucephala albeola		T	\top	_		\dashv	
common Goldeneye	Bucephala clangula		1	+	\neg	+	+	
looded Merganser	Lophodytes cucullatus		+	+	\dashv	+		
led-breasted Merganser	Mergus serrator		+	╂┤	\dashv	\dashv	+	
ommon Merganser	Mergus merganser		+	+ +	\dashv	\dashv	\dashv	
uddy Duck	Oxyura jamaicensis		+	╁┤	\dashv	\dashv	+	
sprey	Pandion haliaetus		+-	╂╌┼	+	+	+	

Common Name	Scientific Name	Maximun		S.N		rea	a		Notes
Bald Eagle	Haliaeetus leucocephalus	Number		L	7	<u> </u> F) [) E	
Northern Harrier	Circus cyaneus		4	4	+	_	\downarrow	\downarrow	
Sharp-shinned Hawk	Accipiter striatus		+	-	_	_	\downarrow	_	
Cooper's Hawk *	Accipiter cooperii		_	_	\downarrow	1	1	\downarrow	
Broad-winged Hawk	Buteo platypterus		+	_	_	-	\perp	\perp	
Red-tailed Hawk *	Buteo jamaicensis		4	4	\perp	-	<u> </u>	\perp	
Rough-legged Hawk	Buteo lagopus		4	_	_	1	Х	1	2, 3, 4, 6
American Kestrel *	Falco sparverius		+	_	╁		_		
Merlin	Falco columbarius		+	_	╀	┡	_	-	
Peregrine Falcon	Falco peregrinus		+	+	igapha	-	\perp	$oldsymbol{oldsymbol{\perp}}$	
Ring-necked Pheasant *	Phasianus colchicus		+	- -	-	-	_	_	
Northern Bobwhite *	Colinus virginianus		+	+	╀	_	-	L	
Virginia Rail	Rallus limicola		╀	+	├-	_	-	ļ	
Sora	Porzana carolina			+-	┝	_	-	_	
Common Gallinule	Gallinula galeata		╀	+	ļ	_	<u> </u>		
American Coot	Fulica americana		╀	-	_	L	_		
Black-bellied Plover	Pluvialis squatarola		+	_					
American Golden-Plover	Pluvialis dominica		+	╀	_		_		
Semipalmated Plover	Charadrius semipalmatus		╁	+		_	_		
Killdeer *	Charadrius vociferus	10	X	-	Χ	V	$\overline{}$	V	
Greater Yellowlegs	Tringa melanoleuca		+		$\hat{}$	긲	긔	긔	3, 4, 7
Lesser Yellowlegs	Tringa flavipes		╀	\vdash	\dashv	\dashv		\dashv	
Solitary Sandpiper	Tringa solitaria		├	+-		-	-	+	
Spotted Sandpiper *	Actitis macularius		╁┈	\vdash	-	\dashv	\dashv		
Whimbrel	Numenius phaeopus		╁	$\vdash \vdash$	\dashv	\dashv	\dashv	\dashv	
Ruddy Turnstone	Arenaria interpres		┢	╀┤		+	\dashv	+	
Red Knot	Calidris canutus		-	\vdash	\dashv	+	+	+	
Sanderling	Calidris alba		H	\vdash	+		\dashv	+	
Semipalmated Sandpiper	Calidris pusilla		-	\vdash	\dashv	+	+	-	
Western Sandpiper	Calidris mauri			H	\dashv	+	\dashv	+	
_east Sandpiper	Calidris minutilla			-	╁	+	+	+	
White-rumped Sandpiper	Calidris fuscicollis			\vdash	-	+	+		
Baird's Sandpiper	Calidris bairdii			\dashv	+	+	+	+	
Pectoral Sandpiper	Calidris melanotos		-	+	╬	+	+	+	
Dunlin	Calidris alpina		\dashv	\dashv	+	+	╁	+	
Short-billed Dowitcher	Limnodromus griseus			\dashv	+	+		+	
Vilson's Snipe	Gallinago delicata		\dashv		╬	╬	╀	+	
American Woodcock *	Scolopax minor	2	-	-	+	+	-	+	3, 4, 8, 9
Vilson's Phalarope	Phalaropus tricolor		\dashv	+	+	+	ť	╁	<u> </u>
Bonaparte's Gull	Chroicocephalus philadelphia		\dashv	\dashv	+	十	+	+-	
Ring-billed Gull *	Larus delawarensis	3	Х	\dashv	+	+	╁	+	2, 3, 4, 10
lerring Gull *	Larus argentatus	10		+	(j)		 	+	2, 3, 4, 10
hayer's Gull	Larus thayeri		+	+	+	+	+	+	<u> </u>
Blaucous Gull	Larus hyperboreus	 	+	╬	+-	┿	+	+-	

Common Name	Scientific Name	Maximum	1550 2761		Α	rea	(904)	it i	Notes	93
Great Black-backed Gull	Larus marinus	Number	L	O	S	Р	D	В		Š
Caspian Tern	Hydroprogne caspia				L			L		
Common Tern *	Sterna hirundo									_
Forster's Tern *	Sterna forsteri				L	_				
Black Tern *	Chlidonías niger				L					
Rock Pigeon *	Columba livia				L	_				1
Mourning Dove *	Zenaida macroura			_						
Black-billed Cuckoo	Coccyzus erythropthalmus			_						
Eastern Screech Owl *	Megascops asio									7
Great Horned Owl *	Bubo virginianus									
Snowy Owl	Bubo virginarius Bubo scandiacus									1
Short-eared Owl	Asio flammeus		_							7
Common Nighthawk	Chordeiles minor									1
Chimney Swift *										1
Ruby-throated Hummingbird *	Chaetura pelagica Archilochus colubris			┙						1
Belted Kingfisher *										
Red-headed Woodpecker *	Ceryle alcyon									١
Red-bellied Woodpecker *	Melanerpes erythrocephalus			\perp						l
Downy Woodpecker *	Melanerpes carolinus									
Hairy Woodpecker *	Picoides pubescens	2					7	X	3, 4, 8	
Northern Flicker *	Picoides villosus						T			ĺ
Eastern Wood-Pewee *	Colaptes auratus				I			1		
Yellow-bellied Flycatcher	Contopus virens			T		T		1		
Alder Flycatcher	Empidonax flaviventris					\top	T	T		
Willow Flycatcher *	Empidonax alnorum			T						
Least Flycatcher *	Empidonax traillii			T	T			1		
Eastern Phoebe	Empidonax minimus			T	1		\top	T		
	Sayornis phoebe					\top	\top	┪		
Great Crested Flycatcher *	Myiarchus crinitus			T		1	1	十		
Eastern Kingbird *	Tyrannus tyrannus		T	T	1	十	T	十		
White-eyed Vireo	Vireo griseus			T	†	1	十	1		
Blue-headed Vireo	Vireo solitarius		T	T	1	†	†	t		
Yellow-throated Vireo *	Vireo flavifrons			T	†	\dagger	+	十		
Warbling Vireo *	Vireo gilvus		1	T	T	\dagger	+			
Philadelphia Vireo	Vireo philadelphicus			T	†-	+-	十	\vdash		
Red-eyed Vireo *	Vireo olivaceus			-	\dagger	t	┢	╀		
Blue Jay *	Cyanocitta cristata				T	╁	╁	-		
American Crow *	Corvus brachyrhynchos				-	+	+	H		
lorned Lark	Eremophila alpestris			-	H	+	╁╴	-		
Purple Martin *	Progne subis			-	1-	╁╴	 	┝		
ree Swallow *	Tachycineta bicolor		\square		┢	┝┈	十			
lorthern Rough-winged Swallow*	Stelgidopteryx serripennis		\vdash		\vdash	+	-	-		
Bank Swallow *	Riparia riparia		\vdash		-	+-		\vdash		
Barn Swallow *	Hirundo rustica		$\vdash \vdash$	_	-	┝	-			
liff Swallow *	Petrochelidon pyrrhonota		┝╼┤		-	-	\vdash			

Common Name	Scientific Name	Maximum			Ar			3 g	Notes
Black-capped Chickadee *	Poecile atricapillus	Number	L	С	S	Р	D	В	
Tufted Titmouse *	Baeolophus bicolor		↓_						
Red-breasted Nuthatch	Sitta canadensis		_						
White-breasted Nuthatch *	Sitta carolinensis		_					\perp	
Brown Creeper	Certhia americana								
Carolina Wren *	Thryothorus Iudovicianus		<u> </u>						
House Wren *	Troglodytes aedon		L						
Winter Wren	Troglodytes hiemalis		<u> </u>						
Sedge Wren	Cistothorus platensis		L		\perp				
Marsh Wren	Cistothorus palustris			\bot	\bot	_	\perp		
Blue-gray Gnatcatcher	Polioptila caerulea								
Golden-crowned Kinglet	Regulus satrapa			_	_			\perp	
Ruby-crowned Kinglet	Regulus satrapa Regulus calendula			$ \bot $	\perp				
Eastern Bluebird	Sialia sialis	·		_					
Veery	Catharus fuscescens				1	\perp			
Gray-cheeked Thrush	Catharus minimus			\perp	\perp	\perp			
Swainson's Thrush	Catharus intininus Catharus ustulatus		\downarrow						
Hermit Thrush			_	_					
Wood Thrush *	Catharus guttatus Hylocichla mustelinus								
American Robin *	Turdus migratorius		\downarrow						
Gray Catbird *	Dumetella carolinensis	26	<u> </u>	X)	\oplus	<u>中</u>	(X		3, 4, 12
Northern Mockingbird						\perp			
Brown Thrasher *	Mimus polyglottos Toxostoma rufum		\perp		L				
European Starling *			\perp						
American Pipit	Sturnus vulgaris Anthus rubescens	6327	XĮ.	<u>(</u> X	X	X	X		3, 4, 13, 14
Cedar Waxwing *					L				
Blue-winged Warbler	Bombycilla cedrorum			L					
Golden-winged Warbler	Vermivora cyanoptera						Γ		
Tennessee Warbler	Vermivora chrysoptera								
Orange-crowned Warbler	Oreothlypis peregrina								
Nashville Warbler *	Oreothlypis celata								
Northern Parula	Oreothlypis ruficapilla			Τ	Γ	Γ	Ī		
Yellow Warbler *	Setophaga americana								
Chestnut-sided Warbler	Setophaga petechia								
Magnolia Warbler	Setophaga pensylvanica		T		Γ				
Cape May Warbler	Setophaga magnolia								
Black-throated Blue Warbler	Setophaga tigrina								
	Setophaga virens				_		П		
/ellow-rumped Warbler	Setophaga coronata								
Black-throated Green Warbler	Setophaga virens		1						
Pine Warbler	Setophaga pinus		T				H		
Prairie Warbler	Setophaga discolor		T				\dashv		
Palm Warbler	Setophaga palmarum			-					
Bay-breasted Warbler	Setophaga castanea		T	H	\dashv		+		
Blackpoll Warbler	Setophaga striata		\dagger	\vdash			┰		

Common Name	Scientific Name	Maximun	າ 📗		Ar	ea	75 V 945	Notes
Cerulean Warbler	Setophaga cerulea	Number	1	С	S	Р	DI	3
Black-and-white Warbler	Mniotilta varia		+	_ _			_ -	
American Redstart	Setophaga ruticilla		- -	+-			_	
Prothonotary Warbler	Protonotaria citrea		+	-				
Ovenbird *	Seiurus aurocapilla		_			_	\perp	
Northern Waterthrush	Parkesia noveboracensis		\downarrow	+		4		
Mourning Warbler *	Geothlypis philadelphia		4-	1	_	4	_	
Common Yellowthroat *	Geothlypis trichas		\bot	\bot	\dashv	\downarrow	_	
Wilson's Warbler	Cardellina pusilla		╃-	-	_	4	_	
Canada Warbler	Cardellina canadensis		\perp	-	1	\perp		
Yellow-breasted Chat	Icteria virens		-	4-4	_	_		
Scarlet Tanager *	Piranga olivacea		\perp	$\bot \downarrow$	1	1	\bot	
Eastern Towhee *	Pipilo erythrophthalmus		╀-	$\bot \bot$	_	_		
American Tree Sparrow	Spizella arborea	4.	\downarrow					
Chipping Sparrow *	Spizella passerina	10		$ \Upsilon $	<u> </u>		ΚX	
Field Sparrow *	Spizella pusilla		4_		_		(3, 4, 8, 15, 1
Vesper Sparrow *	Pooecetes gramineus		1		4	_		
Savannah Sparrow *	Passerculus sandwichensis		<u> </u>					
Grasshopper Sparrow	Ammodramus savannarum		<u> </u>		_	_		
Henslow's Sparrow	Ammodramus henslowii		_			1		
ox Sparrow	Passerella iliaca				\perp	\downarrow		
Song Sparrow *	Melospiza melodia				_			
incoln's Sparrow	Melospiza lincolnii	8	Х		/	Y	X	3, 4, 15, 18
Swamp Sparrow *	Melospiza georgiana				\perp	\perp		
White-throated Sparrow	Zonotrichia albicollis					\perp		
White-crowned Sparrow	Zonotrichia leucophrys			_ _	_			
Dark-eyed Junco	Junco hyemalis			\bot	\perp	_	Ш	
apland Longspur	Calcarius Iapponicus	2			_	X		3, 4, 15, 19
Snow Bunting	Plectrophenax nivalis			_	\perp	L		
Vorthern Cardinal *	Cardinalis cardinalis			\perp	$oldsymbol{\perp}$			
Rose-breasted Grosbeak *	Pheucticus Iudovicianus	1		_ >		Х		2, 3, 4, 20
ndigo Bunting *			_	_	<u> </u>	L		
Dickcissel	Passerina cyanea Spiza americana		\dashv		L			
lobolink *								
Red-winged Blackbird *	Dolichonyx oryzivorus							
astern Meadowlark *	Agelaius phoeniceus	286	X	_X	Х	Х	X	3, 4, 21
lusty Blackbird	Sturnella magna							
ommon Grackle *	Euphagus carolinus				L			
rown-headed Cowbird *	Quiscalus quiscula	1303	X	X	Х			3, 4, 22
rchard Oriole *	Molothrus ater	2		\perp			X	3, 4, 8
altimore Oriole *	Icterus spurius		\perp				\int	
urple Finch	Icterus galbula							
ouse Finch *	Carpodacus purpureus							
ed Crossbill	Carpodacus mexicanus					T		
CA OLOGIDIII	Loxia curvirostra	T	Γ	Γ				

Common Name	Scientific Name	Maximum		i i i	A	rea			Notes
White-winged Crossbill *		Number	L	С				В	
	Loxia leucoptera								
Common Redpoll	Acanthis flammea			T					
Pine Siskin *	Spinus pinus			1-	╁				
American Goldfinch *	Spinus tristis				+	-		\vdash	
Evening Grosbeak	Coccothraustes vespertinus			-	-		_		
House Sparrow *	Passer domesticus		-	├-	┝	-		\dashv	
SPECIES TOTAL		10	12/6	(2) P		N\$50	No. X	CO OF S	
		18	122		icho.				

LEGEND

Number means the maximum total observed within the fenceline at the facility; effort was made to avoid any double-counting.

* Indicates species known or suspected to breed in the general area encompassing the site based on generalized state maps (showing county boundaries) presented in "The Atlas of Breeding Birds of Michigan" by R. Brewer et al. (MSU Press: East Lansing, 1991). It should be emphasized that many of the species indicated as breeding birds have specific habitat requirements that are not met by the industrial environment at the Schaefer Road Wastewater Treatment Plant (SRWWTP) and the surrounding area. Thus, species marked with an asterisk above should not be assumed to breed at or even adjacent to the SRWWTP.

Species list adapted from "Bird Checklist of Michigan" (Thayer's Birding Software, 1999) considering habitat provided by site and immediately surrounding areas. Nomenclature is based on the 52nd Supplement to the American Ornithologists' Union "Checklist of North American Birds" (2011).

Bird data collected at five different stations over five-minute intervals throughout the day. Survey performed by Michael Carlson from 5:40 AM to 8:48 PM.

X indicates observations made. It should be emphasized that "X" means that the species was observed within the fenceline of the SRWWTP in proximity to the particular impoundment and, unless otherwise noted, not on or in contact with the water or immediately adjacent to the water at a particular impoundment. In many cases, the species was observed flying over the pond, sometimes higher than 200 feet.

Impoundment Designations:

- L Sludge Ponds
- C Clarifiers
- S Secondary Lagoon
- P Primary Lagoon
- D Diked Lagoon

Other Area Designations:

B Bermed Area

Wednesday, March 14, 2012

NOTES

- At 07:55 one individual was observed to call and to fly southeast over the bermed area and Primary Lagoon at 1. an estimated height of approximately 80-100 feet above ground surface. At 07:58 presumably a mated pair was observed to call and to fly southeast over the bermed area as well as the Primary and Secondary Lagoons at an estimated height of approximately 80 feet above ground surface. At 08:10 one individual was observed to fly east-southeast over the plain south of the Primary Lagoon and the south end of the Secondary Lagoon at an estimated height of approximately 25-45 feet above ground surface. The bird was observed to hesitate as it neared the electrical wire over the south end of the lagoon, and to somewhat awkwardly fly over the wire, and to assume a landing position. The bird was observed to quickly descend and to land on the surface of the Secondary Lagoon approximately 3 feet south of the north diagonal boom. Around 08:25 the same individual was observed to forage at the west edge of the Secondary Lagoon on the south side of a stand of cattails (Typha) approximately 10 feet north of the north diagonal boom. The stems of the cattails at the water surface appeared to be covered with blackish oil. The goose was observed to be rather pale, and to have immaculate plumage. Also at 08:25 five individuals were observed to fly over the Primary and Secondary Lagoons at an estimated height of approximately 150-200 feet above ground surface: a group of 3 was observed to fly northnortheast, while a presumed mated pair was observed to fly southeast, to circle back over the Secondary Lagoon and to fly northwest. From 08:30 to 08:38 the individual on the Secondary Lagoon was observed to swim north along the west side of the lagoon almost to OMI 3. The wildlife consultant attempted to deter the goose from the lagoon by moving his arms up and down and shouting as well as shining the beam of a green laser pen on the surface of the water around the bird. Neither method succeeded in moving the bird from the surface of the water. Around 09:18 the same individual was observed to forage in the same spot at the south side of the cattail stand on the west bank of the Secondary Lagoon north of the north diagonal boom. The bird was observed to submerge its head below the water surface several times and at least one time to submerge its entire neck under water, likely in order to feed on cattail roots. At 09:28 the same bird was observed to call and then to bathe in the center of the Secondary Lagoon several feet north of the north diagonal boom, and to preen for approximately two minutes and to rub its head on its neck and back. At 09:39 the same bird was observed to swim to the west bank of the Secondary Lagoon north of the north diagonal boom and then to walk up the bank at a point approximately 10-20 feet north of the skimmer at the west end of the north diagonal boom. The bird was observed to walk almost halfway up the ramp for approximately 1-2 minutes. At this point it was observed that the bird's cheek patches were slightly stained a dusky gray. Around 09:43 the same individual was observed to again swim on the water surface of the Secondary Lagoon north of the north diagonal boom. At 09:50 another individual was observed to fly silently south over the Rouge River. At the same time the individual on the Secondary Lagoon was observed to watch this individual fly by and to repeatedly call. At 09:51 the bird was observed to take off from the water surface of the Secondary Lagoon and to fly noisily southwest, leaving the SRWWTP and seemingly to follow the path of the bird that had flown past seconds earlier. At 10:29 a presumed mated pair was observed in the dogleg of the bermed area: one individual was observed to rest on the water surface, and the other individual was observed to rest on an isle of vegetation closeby. This pair was viewed through binoculars at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on either individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white throat-cheek patch, white vent, white femoral tract and rump, and pale breast which characterize this species.
- 2. Individual(s) observed flying over the SRWWTP.
- 3. Individual(s) was not observed at or near the water's edge of any of the wastewater treatment ponds and lagoons.
- 4. Individual(s) showed no interest in water surfaces of the SRWWTP wastewater treatment ponds and lagoons.
- 5. Around 06:32 one individual was observed to call from the west end of the bermed area proper. At 10:39 two pairs were observed to fly very quickly northeast over the dogleg of the bermed area at an estimated height of

Wednesday, March 14, 2012

NOTES

(Continued)

approximately 75-100 feet above ground surface. Seconds later the group reappeared and was observed to fly southwest, to quickly turn and to fly north-northeast, then to circle the dogleg, and to fly back to the southwest exiting the SRWWTP. This behavior was not construed as interest in the SRWWTP because the flight was very rapid and may possibly have been associated with courtship activity. Around 20:37 possibly the first individual was observed to call from the west end of the bermed area proper. The individuals in flight were viewed through the naked eye and briefly through binoculars under good light conditions. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been apparent on these birds due to the whitish belly and tail, white border of speculum, and white underwing coverts which are characteristic of the plumage in both sexes of this species.

- 6. At 15:14 one sub-adult was observed to soar, circling over the Diked Lagoon at an estimated height of approximately 200-300 feet above ground surface and to occasionally call. This individual was likely hunting for prey, and given the altitude of the bird and wind direction, it likely was focusing on the bermed area. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been apparent on this bird due to the whitish throat, breast, vent, undertail coverts, and underwing coverts as well as the light red coloration of the tail which generally characterize the plumage of this species.
- 7. At 05:40 one individual was observed to call from what sounded like the top of the west bank of the Secondary Lagoon. Around 06:23 presumably a different individual was observed to call from the bermed area. At 06:43 two presumably different individuals were observed to call from the airspace over the Diked and Primary Lagoons. Presumably the same two individuals were observed to call from the plain south of the Primary Lagoon at 06:51. At 07:52 four individuals were observed to call and to rest on the ground of the plain west of the Primary Lagoon. At 08:00 a fifth individual was observed in the southern portion of the plain west of the Primary Lagoon. Likely two of the same individuals were observed to call from the airspace over the bermed area around 09:08. Around 10:13 presumably two of the same individuals observed earlier were observed to call from the plain west of the Primary Lagoon. Around 11:18 presumably one of the same individuals was observed to call from the airspace over the Diked and Primary Lagoons. Around 11:20 presumably one of the same individuals was observed to call from what sounded like the plain northwest of the Primary Lagoon. At 11:36 two individuals were observed to quietly rest atop the west central bank of the Secondary Lagoon approximately 15 feet south the propane cannon. At the approach of the wildlife consultant, both birds were observed to call and then to take off. Both birds were observed to fly west over the main north-south road and over the Primary Lagoon at an estimated height of approximately 5-20 feet above ground surface. Around 11:39 likely one of the same birds seen previously was observed to forage in the grass of the plain west of the Primary Lagoon. Around 12:01 one individual was observed to call from the airspace over the Primary Lagoon. At 13:51 one individual was observed to call and to fly south over the Sludge Ponds at an estimated height of approximately 100 feet above ground surface. At 15:54 one individual was observed to fly west over the Primary Lagoon at an estimated height of approximately 20 feet above ground surface. At 17:07 likely the same birds seen earlier were observed to rest at the top of the west central bank of the Secondary Lagoon approximately 75 feet south of the propane cannon. At the approach of the wildlife consultant seconds later, both individuals were observed to call and to take off, flying west over the main north-south road and the Primary Lagoon at an estimated height of approximately 6-12 feet above ground surface. At 18:56 one individual was observed to call in the grass of the plain northwest of the Primary Lagoon. This bird was observed to have immaculate plumage. At 18:37 presumably a different bird was observed to call from the airspace over the Primary and Diked Lagoons as it flew north. At 19:03 two individuals were observed to rest on the ground of the plain south of the Primary Lagoon. Both birds were observed to have clean plumages. At 20:02 one individual was observed to call in the plain west of the Primary Lagoon, and another individual was observed to call from what sounded like the top of the west central bank of the Secondary Lagoon. Around 20:11 one individual was observed to call, from what sounded like the plain south of the East Sludge Pond. At

Wednesday, March 14, 2012

NOTES

(Continued)

the same time two individuals were observed to call repeatedly from the airspace over the Sludge Ponds. The latter birds possibly were engaged in courtship circle flight. Around 20:37 one individual was observed to call from the bermed area. Most of these birds were viewed through both the naked eye and binoculars at relatively close to close ranges. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been apparent on these birds, due to the white eyebrow, forehead, throat, collar, lower breast, belly, vent, wing stripe, tail tip, and underwing coverts that characterize the plumage of this species.

- 8. Individual heard, but not seen.
- 9. Around 06:23 one individual was observed to give its nasal ground call from what sounded like the bermed area proper. Around 20:29 presumably a different individual was observed to give its nasal ground call from the east end of the bermed area proper.
- 10. Around 10:48 one 4th year adult was observed to fly west over the Primary Lagoon at an estimated height of approximately 120-150 feet above ground surface. Around 17:52 two adults were observed to fly south and to briefly fly over the west perimeter fence at the West Sludge Pond at an estimated height of approximately 100 feet above ground surface. These birds were viewed through binoculars albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been very apparent due to the birds' prominent white plumage on the head, breast, belly, tail, and underwing.
- 11. Around 07:36 one individual was observed to fly west over the bermed area at an estimated height of approximately 200 feet above ground surface. At 08:14 one individual was observed to fly east over the Sludge Ponds at an estimated height of approximately 1000 feet above ground surface. Around 10:13 one individual was observed to call from the airspace over the bermed area while another individual was observed to fly north over the Diked Lagoon and bermed area at an estimated height of approximately 200-220 feet above ground surface. Around 11:05 one individual was observed to fly west-southwest over the plain south of the Primary Lagoon at an estimated height of approximately 100-120 feet above ground surface. Around 11:20 one individual was observed to call from the airspace over the bermed area. Around 11:39 one individual was observed to briefly acrobat in the wind just over the west perimeter fence opposite the plain south of the Primary Lagoon. Around 11:55 one individual was observed to fly west over the sludge ponds at an estimated height of approximately 150-200 feet above ground surface. At 15:54 two individuals were observed to call and to fly east over the Primary and Secondary Lagoons at an estimated height of approximately 400-500 feet above ground surface. Around 19:26 one individual was observed to fly west over the Secondary Lagoon at an estimated height of approximately 150 feet above ground surface. Most of these birds were adults, and some were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that any oil would likely have been very apparent on these third and fourth year adults, due to the birds' prominent white plumage on the head, breast, belly, and underwing.
- This species was observed during 69% (31 of 45) of the five-minute survey sessions, making it the most commonly observed species during the March survey. Approximately 6 pairs appear to have territories established at the SRWWTP: 4 along the east perimeter fence (south of southeast gate, north of clarifiers, southeast of pumphouse, north of northeast gate), and 2 in the bermed area. In addition, there appears to be at least two pairs west of the west perimeter fence which visit the SRWWTP. Many of the observations, particularly those made before sunrise, were of individuals singing and calling. Only sight observations are presented here. Around 07:27 one individual was observed in a tree on the east outer slope of the Diked Lagoon. At 08:32 one individual was observed to flush from the mid-slope of the southeast bank of the Secondary Lagoon approximately 12 feet north of Station No. 2 due to the approach of the wildlife consultant. This bird was observed to fly east at an estimated height of approximately 2 feet above ground surface. Around

Wednesday, March 14, 2012

NOTES

(Continued)

08:44 one individual was observed to fly over the Diked Lagoon. Around 08:53 one individual was observed to fly over the Diked Lagoon and to land in the road north of the Diked Lagoon and to briefly forage there approximately 20 feet west of Station No. 5. At 09:28 one individual was observed to perch on the electrical wire over the south end of the Secondary Lagoon near the utility pole on the southwest bank of the Secondary Lagoon. Around 10:22 one individual was observed to fly over the bermed area and to land in a tree there. At 10:35 a presumed mated pair was observed to forage on the ground west of the area between the west perimeter fence and the west perimeter road approximately 100 feet south of the south end of the dogleg of the bermed area. Around 10:48 a presumed mated pair was observed to forage in the grass at the northeast portion of the plain south of the Primary Lagoon near the Primary Lagoon fence. Around 10:49 the same pair was observed to forage at the top of the southeast bank of the Primary Lagoon inside the Primary Lagoon fence. Around 10:58 four individuals were observed to forage in the grass and vegetation between the East and West Sludge Ponds. One individual was observed to forage in vegetation on and above the net on the west side of the East Sludge Pond approximately 10 feet north of Station No. 1, while the other birds foraged approximately 20-40 feet north of Station No. 1. At the same time, a fifth individual was observed to forage in the grass at the top of the southwest bank of the Secondary Lagoon approximately 10 feet northeast of the north end of the outfall weir. Around 11:18 one individual was observed to perch in a tree in the bermed area. Around 11:39 a presumed mated pair was observed to forage in the grass of the plain west of the Primary Lagoon. Around the same time one individual was observed to fly west over the south end of the Secondary Lagoon at an estimated height of approximately 5 feet above ground surface. Around 18:20 a presumed mated pair was observed to forage in the grass at the top of the west central bank of the Secondary Lagoon. Around 18:37 one individual was observed to perch on a low branch in the tree on the south outer slope of the Diked Lagoon opposite Station No. 4, which is located at the southeast corner of the Diked Lagoon. At 18:56 one individual was observed to forage in the grass of the plain northwest of the Primary Lagoon. Many of these birds were viewed through the naked eye at relatively close and close range, and several were viewed at close range through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that oil would likely have been apparent on these birds, due to the yellow bill, orangish breast and belly, white undertail coverts and white tail spots which are characteristic of the plumage of this species.

- 13. Not a protected migratory bird.
- 14. Most of these individuals, over 6,000, were associated with a starling-blackbird night roost in the bermed area proper. All but one of the individuals observed were flying over the SRWWTP. At 17:52 one individual was observed to sing from atop the aerial on the roof of the SRWWTP Office building. Vocalizations from an estimated 60 individuals were observed coming from the bermed area proper around 06:32. At 07:22 a group of 12 individuals in a mixed flock of other blackbirds was observed to fly south from the bermed area. In addition, several small groups were observed in trees in the bermed area proper at around 07:27 and 07:45. These observations together with the lack of observation of flight lines over the SRWWTP (excluding the bermed area) indicate that the birds left the night roost to the north and or east. Individuals were observed to arrive from the east beginning around 19:11 when two homogeneous flocks were observed to land in trees at the north side of the bermed area, and minutes later drop into the *Phragmites* and *Typha* below. A large homogeneous flock of at least 3,000 individuals was observed to fly west over the bermed area and then to swerve back to the east and land in trees of the bermed area proper at 19:40. Around 20:37 the roost was quiet with the exception of several individuals vocalizing from the *Phragmites*.
- 15. Individual(s) likely recently arrived migrant(s) or still in the process of migration.
- 16. At 07:22 one individual was observed to call from the ground at the toe of the east outer slope of the Diked Lagoon north of the Secondary Lagoon. At 07:45 three individuals were observed to call from vegetation at the south end of the dogleg of the bermed area. At 08:32 one individual was observed to call from the area north of

Wednesday, March 14, 2012

NOTES

(Continued)

the north clarifier. At 10:07 presumably two different individuals were observed to call from the ground at the east perimeter fence south of the northeast gate. These birds were observed to fly up into nearby trees at the approach of the wildlife consultant, and then to fly off to the north approximately 20 seconds later. Around 10:13 two individuals were observed to call from near the Diked Lagoon: one from the south outer slope of the Diked Lagoon, and the other from the east outer slope. Around 10:49 one individual was observed to call from what sounded like the southeast corner of the Primary Lagoon. Around 18:37 presumably one of the same individuals was observed to call from the east outer slope of the Diked Lagoon. At 18:56 one individual was observed to call from a tree at the bermed area proper. Several of these individuals were viewed through binoculars, albeit briefly at relatively close range. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that oil would likely have been apparent on the birds due to the pale grayish breast and whitish belly which are characteristic of this species.

- 17. At 07:22 one individual was observed to call from the ground at the toe of the east outer slope of the Diked Lagoon north of the Secondary Lagoon.
- Around 06:23, 06:32, 09:08, 10:13, 10:22, and 11:18 one individual was observed to sing from the bermed area 18. proper. Also around 06:23 one individual was observed to sing from the area between the east end of the bermed area loop road and the east perimeter fence. Around 06:32 another individual was observed to sing from the bermed area. Around 07:27 three individuals were observed to sing from the bermed area. Around 08:44 two individuals were observed to sing from the bermed area. At 07:19, 07:22, 08:44, 09:08, 10:22, and 11:20 one individual was observed to sing from the east outer slope of the Diked Lagoon. Around 08:14 two individuals were observed to call from the area between the East and West Sludge Ponds. Around 09:01 three individuals were observed to sing from the bermed area. At 10:35 presumably a different individual was observed to forage on the ground west of the west perimeter road approximately 100 feet south of the dogleg of the bermed area. At the approach of the wildlife consultant this individual was observed to fly north along the west perimeter fence, and then to land briefly atop the west perimeter fence before flying west and exiting the SRWWTP. Several of these individuals were viewed through binoculars, albeit briefly. No evidence of oil or discoloration, or matted feathers was observed on these individuals. It should be noted that oil would likely have been apparent on these birds, due to the whitish throat, belly, and undertail coverts as well as the pale supercilium and submoustachial stripe which characterize the adult plumage of the eastern race of this species.
- 19. Around 08:53 one individual was observed to call from what sounded like the east outer slope of the Diked Lagoon Around 09:08 one individual was observed to sing in the tree on the south outer slope of the Diked Lagoon opposite Station No. 4. Only one individual was seen, and this one was viewed through binoculars, albeit very briefly. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that oil would likely have been apparent on the birds due to the pinkish bill, whitish belly and white outer tail feathers that characterize the plumage of the species.
- At 07:25 one male was observed to fly southeast past the south end of the east outer slope of the Diked Lagoon and over the north end of the Secondary Lagoon at an estimated height of approximately 3-4 feet above ground surface. The bird was observed to fly within several inches of the wildlife consultant's face, and to call twice. No evidence of oil or discoloration, or matted feathers was observed on this individual. It should be noted that any oil would likely have been apparent due to the bright orange-red plumage of the male of this species.
- 21. Most of these individuals, approximately 200, were associated with a starling-blackbird night roost in the bermed area proper. The first individuals were observed vocalizing from the bermed area proper at 06:40. One individual amongst a small flock of Common Grackles and European Starlings was observed to fly south over the Diked and Secondary Lagoons at 07:22. No other flights from the roost around sunrise were observed over the SRWWTP. Around 19:26 a group of 5 individuals was observed to fly northwest over the Sludge Ponds and Secondary Lagoon. No other flights to the roost around sunset were observed over the SRWWTP. Around

Wednesday, March 14, 2012

NOTES

(Continued)

18:37 and 19:48 four individuals were observed to rest in a tree in the bermed area amongst Common Grackles and European Starlings. These observations together with the lack of observation of flight lines over the SRWWTP (excluding the bermed area) indicate that the birds likely left the night roost to the north and/or east, and arrived from the north and/or east. Throughout the day, up to approximately 30 individuals were males displaying and singing in the bermed area. Only observations of birds proximal to treatment ponds and lagoons are presented below. Around 08:44 and 11:20 one male was observed to sing in a tree on the east outer slope of the Diked Lagoon. Around 08:25 one individual was observed to call from the area around the Primary Lagoon. Around 18:37 two individuals were observed to call from trees on the east outer slope of the Diked Lagoon. At 10:07 two males were observed to call from the Mylar ribbon cable at the top of the bank of the northeast corner of the Secondary Lagoon. At 17:26 presumably one of the same males was observed to fly west over the north end of the Secondary Lagoon at an estimated height of approximately 1-3 feet above the water surface. This individual was observed to land on the Mylar ribbon cable at the top of the bank at the northwest corner of the Secondary Lagoon. Presumably the same male was observed at 18:30 to fly over the north end of the Secondary Lagoon and to perch and display on the electrical wire over this lagoon opposite the pumphouse. At the same time presumably the same second bird was observed to call from the top of the guardrail at the northeast corner of the Secondary Lagoon. The same two males were observed to call from the Mylar ribbon cable at the top of the bank at the northeast corner of the Secondary Lagoon at 19:35. Both individuals were observed to flush at the approach of the wildlife consultant, and to fly south and to perch on the electrical wire over the north end of the Secondary Lagoon.

22. Most of these individuals, approximately 1,100, were associated with a starling-blackbird night roost in the bermed area proper. The first individuals were observed vocalizing from the bermed area proper around 06:32. Three individuals amongst a small flock of Red-winged Blackbirds and European Starlings was observed to fly south over the Diked and Secondary Lagoons at 07:22. At 07:45 three individuals were observed to fly north over the bermed area. No other flights from the roost around sunrise were observed over the SRWWTP. Around 18:37 and 19:48 nine and 20 individuals, respectively, were observed to rest in a tree in the bermed area amongst Red-winged Blackbirds and European Starlings. These observations together with the lack of observation of flight lines over the SRWWTP (excluding the bermed area) indicate that the birds likely left the night roost to the north and/or east, and arrived back to the roost from the north and/or east. Throughout the day, up to approximately 25 to 30 individuals were singing and calling from trees and Phragmites in the bermed area, chiefly the dogleg. Only sight observations of birds proximal to treatment ponds and lagoons are presented below. At 09:35 one individual was observed to call from atop the utility pole immediately east of the belt skimmer. The bird was observed to have flown off by 09:36. At 09:43 presumably a different individual was observed to call and to rest in a tree at the west perimeter fence adjacent to the West Sludge Pond. At the same time two individuals were observed to forage in the grass immediately adjacent to the west perimeter fence approximately 45 feet southwest of the weather station. located near the top of the southwest bank of the Primary Lagoon. Around 10:13 two individuals were observed to forage along the west shoulder of the road west of the Diked Lagoon. Around 18:37 presumably a different individual was observed to call from a tree on the east outer slope of the Diked Lagoon.

ANIMAL SIGN OBSERVED

1	Type:	Species:	☐ certain	#:		fresh	soile	d
	dropping	AMERICAN ROBIN	probable probable	3		relatively fresh	☐ appe	ears to be oiled
			⊠ possibłe	7				il apparent
	Location: to	p of guard rail on east side of East	found before	1	F	old	dama	
	Sludge Pond	, approximately 25 feet south of the	Status: NA	.l		very old		1 individual(s)
I	northeast co	rner				residual	110111	i iliulvidual(s)
ĺ			Based on: NA			residual	Dahari	
			Dasca Off, IVA				Behavi	
Į	Photo #: Si	-ing Doct-	4				standin	ıg
		zing Basis: ch ruler						
	1.77							
	Additional Si	gn Present: none	Note:					
L.			_					
2	Type:	Species:	☐ certain	#;		fresh	□ soile	d
	burrow	WOODCHUCK	probable probable	2		relatively fresh		ars to be oiled
			possible possible]_		relatively old	no oi	apparent
	Location: ap	proximately 6-8 feet southwest of				old	dama	
İ	belt skimmer	at the top of the bank near	Status: probab	ly		very old	From N	NΑ
	southeast co	rner of Secondary Lagoon	inactive			residual	ìndividu	ıal(s)
			Based on: no a	pparer	nt m	odification of	Behavio	
			entrances				NA	
	Photo #: Siz	zing Basis:						
	none NA							
	Additional Sig	n Present: none	Note:				<u> </u>	
3	Туре:	Species:	☐ certain	#:	Im	fresh	soiled	
	burrow	, WOODCHUCK	probable	3	Ħ	relatively fresh		ars to be oiled
			possible		一	relatively old		apparent
	Location: und	der southwest foundation of	☑ found before			old	dama	
	pumphouse a	it top of northeast bank of	Status: probabl	V		very old	From N	
	Secondary La	agoon	active	•		residual	individu	
			Based on: Woo	dchuc	k ol	served at	Behavio	
			burrow entranc				NA	<i>,</i> , ,
	Photo #: Siz	ing Basis:	during Septemi				1303	
	none NA		3			u. 10),	1	
	Additional Sig	n Present: none	Note:				L	
	•		11010.					
4	Type:	Species:	☐ certain	#:		fresh	soiled	*
	1	WOODCHUCK	probable	# . 1		relatively fresh		ars to be oiled
	DUITOW	WOODCHOCK	possible	1		relatively old		apparent
	Location: mid	l-slope of northeast bank of Primary	☑ found before			old	☐ dama	
	Lagoon, appre	oximately 15 feet northwest of utility	Status: unknow	'n		very old	From N	
	pole	•				residual	individu	
			Based on: NA	·······			Behavio	
							NA	,ı,
	Photo #: Siz	ing Basis:	1				10, 1	
İ	none NA							
	Additional Sig	n Present: none	Note:					
			Note.					
5	Туре:	Species:	☐ certain	#:	П	fresh	☐ soiled	
		, WOODCHUCK		2		relatively fresh		ars to be oiled
			possible	_		relatively old		apparent
	Location: upp	er mid-slope of the east bank of the	found before			old	dama	
1	Primary Lagor	on, approximately 12 feet south of	Status: NA			very old	From 1	individual(s)
ŀ	previous burre	DW .				residua!		(3)
			Based on: NA				Behavio	r:
ļ							unknow	
		ng Basis:						
		n ruler						
	Additional Sig	n Present: none	Note: 3.5 inches	s deen	_ M	av be start an	d/or abou	ted start of
_			another burrow	entran	. w	a, ao ciair an	aror abbi	icu start UI
		Charmer and the Color of the Co						

ANIMAL SIGN OBSERVED

6	Туре:	Species:	☐ certain	#:	fresh	☐ soiled
1	dropping	AMERICAN ROBIN	□ probable	2	I relatively fresh	
			possible	7	☐ relatively old	no oil apparent
1	Location: up	pper mid-slope of east central bank of	found before	7	Old	☐ damaged
	the Primary	Lagoon, approximately 50 feet north	Status: NA		very old	From 1 individual(s)
	of TVT bridg	je j			residual	i TOIN I MUNICUAI(S)
			Based on: NA		100,000	Behavior:
						standing
	Photo #: S	zing Basis:	1			standing
l	1	ch ruler				
		ign Present: none	- L			
	Additionar	gn Fresent. Hone	Note:			
7	Туре:	Species:	certain	#:	fresh	
	food	RACCOON / CARP	probable	1.	relatively fresh	☐ soiled ☐ appears to be oiled
	remains	MACCOON / CARP	⊠ possible	-	relatively resir	no oil apparent
•		pper lower slope of the east central	found before	-		
	bank of the	Primary Lagoon, approximately 35	Status: NA	l	⊠ old □ very old	☐ damaged
	feet north of	TVT hridge	Status, NA		residual	From 1 individual(s)
		1 v i bilage	Based on: NA		LT residual	Behavior:
		•	24004 011: 101			unknown
	Photo #: Si	zing Basis:	-			UNKIOWII
		ch ruler				
	Additional Si	gn Present: none	Note: Approxim	nately	1.5 feet from water	r's edge. Vertebrate
		_	and appendag	e bone	s. Light-moderate	n s euge. Vertebrate
8	Type:	Species:	⊠ certain	#:	fresh	soiled
	scat	EASTERN COTTONTAIL	probable	~70	relatively fresh	appears to be oiled
			possible	, ,	relatively old	no oil apparent
	Location: lov	ver mid-slope of the southwest bank	☐ found before		⊠ old	damaged
	of the Primar	y Lagoon, approximately 20 feet east	Status: NA		very old	From 1-2
	of the southw	est corner/			☐ residual	individual(s)
			Based on: NA			Behavior:
	Dhata #. To:-		_			unknown
		zing Basis: ch ruler				
	Additional Sit	gn Present: none	Note:			
9	Туре:	Species:		A CONTRACTOR OF THE PARTY OF TH		
[•	☐ certain ☐ probable	#:	☐ fresh	soiled
	track	BLACK-CROWNED NIGHT-HERON	possible	3	☐ relatively fresh☐ relatively old	appears to be oiled
	Location: top	of the weir at the south end of the	found before		☑ felatively old	☐ no oil apparent ☐ damaged
	Primary Lago	on, approximately 25 feet east of	Status; NA		very old	From 1 individual(s)
	west end	, ,,,			residual	i ion i individual(s)
			Based on: NA			Behavior:
						standing
1		ring Basis:				
	none NA					
	Additional Sig	gn Present: none	Note:			
10	T	0				
		Species:	☐ certain	#:	fresh	soiled
	burrow	WOODCHUCK	probable possible	1	relatively fresh	☐ appears to be oiled
-	Location: low	er mid-slope of the west Primary	found before		relatively old	no oil apparent
	Lagoon, appr	oximately 45 feet north of the	Status: active		☐ old ☐ very old	☐ damaged From NA
	southwest co	rner	a.a. aony		☐ residual	
			Based on: Not t	ound i	_	individual(s) Behavior:
		9	surveys. Recei	nt exca	vated sand	NA
	Photo #: Siz	ing Basis:		onoa	-alou ouriu,	N/A
		h ruler				
Γ.	Additional Sig	n Present: none	Note:			

ANIMAL SIGN OBSERVED

11	Type:	Species:	□ certain]#;	T] fresh	Soiled
I	dropping	AMERICAN ROBIN	probable probable	1	_	relatively fresh	appears to be oiled
			possible	7	ıF	relatively old	no oil apparent
	Location: atd	op rock at top of the north bank of the		7	厅		damaged
	Primary Lago	oon, approximately 25 feet east of	Status: NA		╁╞	very old	
	northwest co	rner at fence line	Otatus, IVA		╠	residual	From 1 individual(s)
		THE EXTENSION WITH	Deced on MA		<u> </u>	J residual	
l			Based on: NA				Behavior:
	Di ((0)		-				standing
l		zing Basis:					
	15 inc	ch ruler					
	Additional Signal	gn Present: none	Note:				
		-					
12	Туре:	Species:	☐ certain	#:	TF	fresh	
	dropping	AMERICAN ROBIN	probable			relatively fresh	soiled appears to be oiled
	uropping	AMERICAN ROBIN	possible	┪'		relatively old	
	Location: atc	pp rock at mid-slope of the northeast	☐ found before	-	 -	old	no oil apparent damaged
	corner of the	Primary Lagoon	Status: NA		恄		From 1 individual(s)
		, ,				residual	i rom i maividual(s)
			Based on: NA		1	,	Behavior:
							standing
	Photo #: Siz	ring Basis:					Stationing
	none NA						
	Additional Sig	n Present: none	Note:				
		, rooma none	inole.				
13	Туре:	Species:	 	1.,			
}		•	certain	#:		fresh	soiled
	shallow dig	STRIPED SKUNK	☐ probable ☐ possible	3	K	relatively fresh	appears to be oiled
	Location: ton	of the east central bank of the	found before	-	H	relatively old	no oil apparent
	Primary Lago	on, approximately 2 feet west of	Status: NA	L	닖	old	damaged
	fence	on, approximately 2 leet west of	otatus; NA		ዙ	very old residual	From 1 individual(s)
	TOTICO		Based on: NA		يا	residual	B
			Dased OII. NA				Behavior:
	Photo #: Siz	ing Basis:					foraging
	1	h ruler					
		n Present: none					
[*	Additional Sig	ii Fieseni. None	Note:				
4.4	Т			to an Edition of the Assessment			
- 1	ı	Species:		#:		fresh	☐ soiled
	scat	EASTERN COTTONTAIL	probable	~400	Щ	relatively fresh	appears to be oiled
-	ocation: ton	of the southwest corner of the	possible		×	relatively old	no oil apparent
	Primary Lago	on connection to be a feet to the state of the	☑ found before			old	☐ damaged
	of weather sta	on, approximately 3 feet northwest ation. Immediately inside fence.	Status: NA			very old	From 2-3
1	oi weather Sta	idon. Inimediately inside tence.	<u> </u>		Ш	residual	individual(s)
			Based on: NA				Behavior:
	Photo #: Sizi						unknown
1	none NA	ing Basis:					
	Additional Sig	n Present: none	Note:				
			and the second s	en en en en en en en en en en en en en e		No.	
		Species:	certain	#:		fresh	soiled
!	shallow dig 🛭 🥄	STRIPED SKUNK	☑ probable	~45		relatively fresh	appears to be oiled
H.	orialion alg	,	possible possible			relatively old	no oil apparent
	Location: top	of the west bank of the Secondary	☐ found before				☐ damaged
	Location: top	of the west bank of the Secondary oximately 120 feet south of cannon				very old	☐ damaged From 1-2
	Location: top	of the west bank of the Secondary eximately 120 feet south of cannon	☐ found before Status: NA				
	Location: top	of the west bank of the Secondary eximately 120 feet south of cannon	☐ found before			very old	From 1-2
	Location: top Lagoon, appro	eximately 120 feet south of cannon	☐ found before Status: NA			very old	From 1-2 individual(s) Behavior:
F	Location: top Lagoon, appro	of the west bank of the Secondary oximately 120 feet south of cannon ng Basis:	☐ found before Status: NA			very old	From 1-2 individual(s)
ľ	Location: top Lagoon, appro	ng Basis:	☐ found before Status: NA			very old	From 1-2 individual(s) Behavior:
ľ	Location: top Lagoon, appro	ng Basis:	☐ found before Status: NA Based on: NA	s in dia		very old residual	From 1-2 individual(s) Behavior:

ANIMAL SIGN OBSERVED

1	Type:	Species:	⊠ certain	#:		fresh	_ _	soiled
[dropping	CANADA GOOSE	☐ probable		L	relatively fresh		appears to be oiled
ı			possible	-		relatively old		no oil apparent
	Location: lo	wer slope of the southeast bank of	found before	.l	<u> </u>	old		damaged
	the Seconda	ry Lagoon, approximately 3 feet	Status: NA			very old	_ F	rom 1 individual(s)
į	north or north	h end of steel wall of skimmer at			╙	residual		
	Junction of the	orth and south diagonal booms	Based on: NA				В	ehavior:
			_				st	tanding
		zing Basis:						
l	none N	4						
ĺ	Additional Si	gn Present: none	Note: Individua	lobse	rve	d to come ash	ore	near here on the
			morning of this	surve	у.			mor nord on the
17	Type:	Species:	certain	#:	Ī] fresh	Tr	soiled
	dropping	AMERICAN ROBIN	□ probable	4		relatively fresh	Ī	
			possible	-		relatively old		no oil apparent
	Location: to	o of segment 2 and 3 (from west) of	☐ found before	L		old		damaged
	soum diagon	al boom north of south end of the	Status: NA			very old		rom 1-2
	Secondary L	agoon	December 210		1	residual		dividual(s)
			Based on: NA					ehavior:
	Photo #: Siz	zing Basis:	4				st	anding
	none NA							
		gn Present: none	NI-4					
	Additional Si	gn Fresent. Hotte	Note:					
18	Туре:	Species:	☐ certain	4		L.C.		
	feather	CANADA GOOSE	probable	#: 1	H	fresh relatively fresh	분	
	leamer	CANADA GOOSE	possible	ı	卡	relatively old		appears to be oiled no oil apparent
	Location: we	st shoulder of east perimeter road,	☐ found before			old		damaged
	approximatel	y 15 feet south of the northeast	Status: NA			very old		om 1 individual(s)
	corner of the	Secondary Lagoon				residual	Ľ	· · · · · · · · · · · · · · · · · · ·
			Based on: NA				Ве	ehavior:
i								
	DI-1-4-10:	· Pa	_				un	ıknown
		zing Basis:					un	ıknown
	none NA	<u> </u>						
	none NA		Note: Worn. Al	l white	pa	le brown wavy	line	es and slight gray
	none NA Additional Sig	n Present: none	hue. Approxima	ately 1	.75	inches long. §	line See	es and slight gray Note 1.
	none NA	<u> </u>	hue. Approxima ☐ certain	l white ately 1 #:	.75	inches long. S fresh	line See	es and slight gray Note 1. soiled
	none NA Additional Sig	n Present: none	hue. Approxima certain probable	ately 1	.75	fresh relatively fresh	line See	es and slight gray Note 1. soiled appears to be oiled
	none NA Additional Sig	n Present: none	hue. Approxima certain probable possible	ately 1	.75	fresh relatively fresh relatively old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent
	none NA Additional Sig Type:	n Present: none	hue. Approxima certain probable possible found before	ately 1	.75	fresh relatively fresh	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged
	none NA Additional Sig Type:	n Present: none	hue. Approxima certain probable possible	ately 1	.75	fresh relatively fresh relatively old old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om
	none NA Additional Sig Type:	n Present: none	hue. Approxima certain probable possible found before	ately 1	.75	fresh relatively fresh relatively old old very old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location:	gn Present: none Species:	hue. Approxima certain probable possible found before Status:	ately 1	.75	fresh relatively fresh relatively old old very old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om
	none NA Additional Sig Type: Location:	n Present: none	hue. Approxima certain probable possible found before Status:	ately 1	.75	fresh relatively fresh relatively old old very old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location: Photo #: Siz	gn Present: none Species:	hue. Approxima certain probable possible found before Status: Based on:	ately 1	.75	fresh relatively fresh relatively old old very old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location:	gn Present: none Species:	hue. Approxima certain probable possible found before Status:	ately 1	.75	fresh relatively fresh relatively old old very old	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on:	ately 1 #:	.75	fresh relatively fresh relatively old old very old residual	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location: Photo #: Siz	gn Present: none Species:	hue. Approxima certain probable possible found before Status: Based on: Note:	ately 1	.75	fresh relatively fresh relatively old old very old residual	line See	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) shavior:
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on: Note: certain probable	ately 1 #:	.75	fresh relatively fresh relatively old old very old residual fresh relatively fresh	line See D D Fro inc Be	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) shavior:
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on: Note:	ately 1 #:	.75	fresh relatively fresh relatively old old very old residual	line See D D Fro inc Be	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) shavior: soiled appears to be oiled no oil apparent
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type:	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on: Note: certain probable possible	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old residual	line See Comparison C	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) chavior: soiled appears to be oiled no oil apparent
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type:	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on: Certain probable probable possible found before	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old residual	From Bee	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) shavior: soiled appears to be oiled no oil apparent damaged
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type:	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on: Certain probable probable possible found before	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old very old residual	From Income Inco	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) chavior: soiled appears to be oiled no oil apparent
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type: Location:	gn Present: none Species: ting Basis: gn Present: Species:	hue. Approxima certain probable possible found before Status: Based on: Certain probable probable possible found before found before Status: Status: Certain Probable Certain	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old very old residual	From Income Inco	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type: Location:	gn Present: none Species: ting Basis: gn Present:	hue. Approxima certain probable possible found before Status: Based on: Certain probable probable possible found before found before Status: Status: Certain Probable Certain	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old very old residual	From Income Inco	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type: Location:	gn Present: none Species: ting Basis: gn Present: Species:	hue. Approxima certain probable possible found before Status: Based on: Certain probable possible found before Status: Description probable Status: Based on: Based on:	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old very old residual	From Income Inco	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) soiled appears to be oiled no oil apparent damaged om dividual(s)
	none NA Additional Sig Type: Location: Photo #: Siz Additional Sig Type: Location:	gn Present: none Species: ting Basis: gn Present: Species:	hue. Approxima certain probable possible found before Status: Based on: Certain probable probable possible found before found before Status: Status: Certain Probable Certain	ately 1 #:	75	fresh relatively old old very old residual fresh relatively old old very old residual	From Income Inco	es and slight gray Note 1. soiled appears to be oiled no oil apparent damaged om dividual(s) soiled appears to be oiled no oil apparent damaged om dividual(s)

ANIMAL SIGN OBSERVED

DATE: 03-14-12

1. Feather examined at very close range. It should be emphasized that the presence of this feather does not necessarily indicate that a Canada Goose was actually present on the east perimeter road opposite the northeast corner of the Secondary Lagoon, especially considering the worn, weathered condition of the feather. Molted feathers are frequently wind-blown, and thus may not constitute true signs of physical presence of the birds from which they have come.

APPENDIX B

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

Inspections 124		Overflights 0		Location Primary and Secondary Lagoons	Number of Horn Blasts 15	
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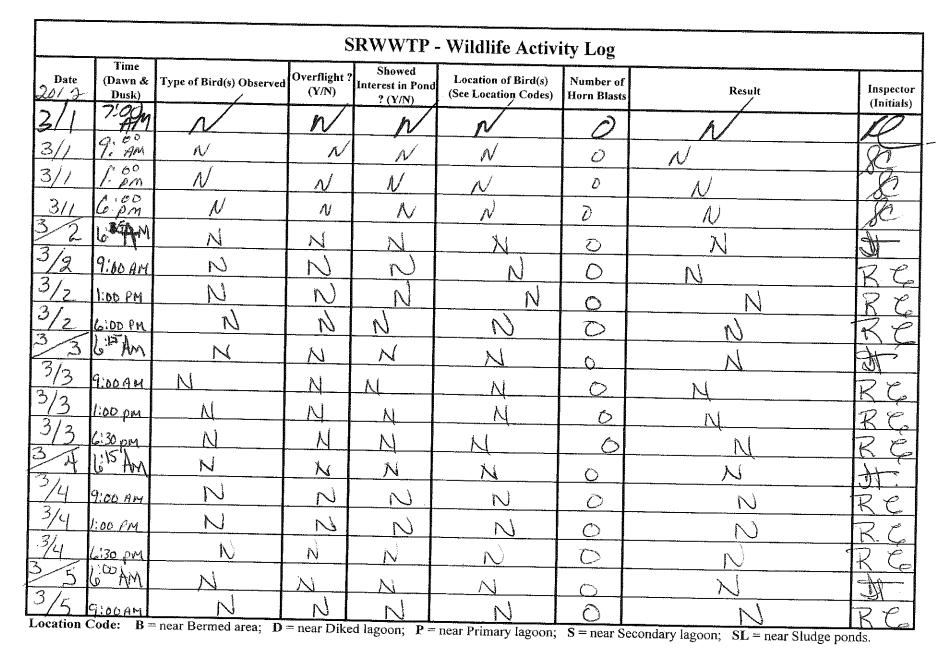
^{*}During dawn to dusk inspections
**However, cannon was effective

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Bank Cover Cannon Breach Oiled Operating Wildlife Observed None 31 days 31 days Canadian Geese	Wildlife Observed None
---	------------------------------

SUMMARY OF DAILY OIL MANAGEMENT LOG

	OF DAIL! OIL	MANAGEME	NT LOG		
Report of Re	coverable Oil N	lot Captured	(by Skimme	ere)	<u> </u>
Primary	Secondary	Sludge	Diked]	
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No		Oil not captured by skimmers is removed on a
			<u> </u>		daily basis.



			S	SRWWTP	- Wildlife Activi	ity Log		
Date 2a/ユ	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
3/5	1:00 PM	N	N	2	N		N)	Re
$\frac{3}{5}$	C-OSAPA		N	N	N	$\overline{\mathbb{O}}$	N	A.F
3/6	7.00 AM	N	N	n/	n	1	N	R
3/6	9.00 9.AM	N	N	$\square N$	N	0	λĺ	18
3/6	1.00	N	N	2	N	0	a/	12C
3/4	7.00	N	\sim	2 1/	N /	0	N	
3/7	7 AM	N	/V	N	11	0	h/	1/4
3/2	9:0m	N	\sim	ν	N	0	N	180
3/7	1.00	N	\sim	N	N	0	N	18c
3/7	7.00 7. pm	N	N	N	N	0	N	8
3/8	TOPM	N	M	\mathcal{N}	11/	Ò	N	1
3/8	9:00 AM	N	N	\sim	N	0	A.I	8
3/8	1.00 1.00	\mathcal{N}	\mathcal{N}	\sim	\sim	0	N	10
3/8	7:30	N	N	N	N /	0	N	
3/9	7:00		N	n/	N	0	1/	14
19	J. AM	N	N	N	N	D	N	DO
3/9	100	N	N	N	N	0	N	18
cation C	7:00	near Bermed area; D	N	2	N	0	N	12/

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

-			S	RWWTP -	Wildlife Activi	ty Log		
Date 2012	Dinski	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
3 10	600 Am	7	7	N	N	0	N	世
3/10	9:00 AM	2	<i>N</i>	N	N	0	N	RG_
3/10	1:00 PM	N	N	N	N	0	N	RC
$\frac{3}{10}$	7:00 pm	N	2	2	<i>(</i>)	0	N	KC
3/1	7:0m	N	11	7/	N	0	X	to
3/11	9:00 AM	N	N	2	N	0	N	RC
3/11	1:00 PM	N	N	N	2	0	N	KE
3/11	7:00 PM	N	N	7	N	0	<u>N</u>	KC
3/12	7:00 AM	N	N	N	N	0	N	TO .
3/12	9:00 AM	N	N	N	\sim	0	N	56
3/12	1:00 PM	N	N	N	N	0	N	RG.
3/12	7:00 PM	N	N	N	N	0	N	K C
3/13	TOO AM	N	7	N	X	0	N	T
3/13	9:00 AM	N	N	, N	N	0	N	RC
$\frac{3}{13}$	1:00 PM	N	N	N	N	0	N	RG
3/13	7:00 PM	N	N	N	N	8	(N)	RG
3/14	7:00 Am	N	W	N	N	0	N	A
3/14	9: Jan	Okese	N	У	P	0	flew away when it nearly	X
Location	Code: B	= near Bermed area; I	e near Dik	ed lagoon; P	= near Primary lagoon	S = near S	econdary lagoon; SL = near Sludge pone	is.

FORM SRWWTP 1.03 DATE: 2/24/2001

q: excellrouge\Revised by MEC.xis

Date O12	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspecto (Initials
3/14	1:0m	N	N	N	N	D	N	18
14	7.00 7.pm	N	~	N	N	0	N	8
://5	7:00 AM	1	1/	\sim	N	0	A)	14
115	9:gn	N	N	N	N	0	N	1
15	1:00 pm	N	N	N	N	0	N	Z
3/15	7:00 7:pm	N	N	N	N	0	N	(SU)
//6	7:00 Am	N	n	\mathcal{N}	\mathcal{N}	0	1/	170
11/2	9:00	N	Ň	N	$\mathcal{N}_{\mathcal{L}}$	0	N	1
116	1:00	\mathcal{N}	N	N	N	0	N	120
114	7 pm	N	N	V	N	0	N	10
//2	7.00	N	N	N	N/	0	n/	A
117	9: Fry	N	N	\mathcal{U}_{\perp}	$\mathcal{N}^{\$}$	0	h/.	8
1/12	1 PM	N	N	N	\mathcal{N}_{i}	0	N	E.
111	7:02 pm	N	N	\mathcal{N}	N	0	N	C
18	6º Am	N	N	N	N	_0_	N	1
18	9:00 AM	N	N	N	N	0	N	RC
18	1:00 PM	N	N	N	N		N	RE
18	Sus Par	N	N	\sim \sim \sim	\mathcal{N}	0	condary lagoon; SL = near Sludg	14

-			S	SRWWTP	- Wildlife Activi	ity Log		
Date 2012	Dusk)	Type of Bird(s) Observed	0	Ct. I	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspecto
30	60AM	N	N	N	N	Ö	N	the
3/19	9:00 AM	N	N	\sim	N	0	N	RE
3/19	1:00 PM	N	N	0	N	8	N	R
29	8:30 PM	N	N	N	N	0	N	THE THE
3 20	630 AV	7	N	N	N	0	N	12
3/20	9:00 AM	N	\sim	N	\sim	0	N	RG
3/20	1:00 PM	N	\mathcal{N}	\mathcal{N}	N	0	N	RC
/20	8:30PM	N	7	N	N	0	N	H
3 21	16.30 Am	N	N	N	N	0	N	14
1/21	9:00 AM	N	N	N	N	0	N	RY Y
1/21	1:00 PM	N	N	N	N	0	N	127
	838M	N	\mathcal{M}	n/	n/	0	n/	100
3/22	7:00 AM	N	N	n	N	0	1/	
	9:00 Am	N	N	N	\sim	0	N	1
3/22	1:00 1:pm	N	N	N	N	0	N	1/2
123	7:00 7:pm	\sim	N	N	N,	0	N	1
3/23	7:90m	N	N	n/	1	0		100
Cation C	9:00 Am	near Bernied area: D	N	N	N	0	N	1/A

Location Code: B = near Bernied area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

			\$	SRWWTP	- Wildlife Activi	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
3/23	1.00	N	N	N	\sim	0	N	80
1/23	7-pm	N	\mathcal{N}_{\perp}	N	N	0	N	y,
3/24	7°60 AM	\mathcal{N}	in/	N	1/	0	N	10
_/	9:00 9:00	N	N	N	\mathcal{N}	0	N	B
3/24	1.00m	N	N	N	N	0	N	1
3/24	7:00 7:00	\sim	_/\	N	N	0	N	10
5/25	7.9Pm	1/	N	N	N	0	N	VC
3/25	9:00 Am	N	N	N	N	0	N	80
125	1:00 DM	N	N	N	\mathcal{N}	0	N	80)
3/25	7. pm	\mathcal{N}	N	N	N	0	N	100
<u>2</u> 21, 6). ³⁹ / _M	<u> </u>	N	N	N		N	tt
124	7:00 AM	N	N	N	N		N	X C
	1:00 PM	N	N	N	\sim \sim	0	N	文と
امل	3:30/m	N	N	N	, L		N	34-
2 /	6-24W	N	N	N	N	0	N	1
1/27 9	1:00 AM	N	<u> </u>	7	N	_0	N	RC
	:00 PM	N	N	_ <u>N</u> _	N	٥	N	RE
~ Ltk	33PM	6FEDE -(5)	N	N	2	4	FLEW AWAY	TH:
cation C	ode: B=	near Bermed area; D	≃ near Dike	d lagoon; P =	near Primary lagoon;	S = near Se	condary lagoon; SL = Incar Sludge po	ands.

			S	RWWTP -	- Wildlife Activi	ity Log	A SECTION AND A	
Date	Time (Dawn & Dusk)		Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
$\frac{3}{25}$	6 30 Am	N	N	N	N	0	N	#
	9:00 AM	N	7	N	N	0	N	RP
$\frac{3}{28}$	1:00 PM	I CANADIAN GOOSE	7	Y	S	4	NO EFFECT	RE
- 7 M	800 Pm	N	7	Z	N	0	N	To the second
<i> </i>	Mei)	3 CANADIAN HERE	X	1		1	No EFFECT	#
3/29 3/20	9:00 AM	2 CANAD : AN BEESE	N	Υ	5	3	FLEW AWAY	RC
3/29	1:00 PM	N	N	7	N	0	NI	RE
3/29	738/	N	N	-N	N	0	N	100
	7:00m	N	N	N	N	0	n/	P
i	9:00 Am	N	N	\mathcal{N}	\mathcal{N}	0	N,	
2/3D	1.00m	\sim	\mathcal{N}	\mathcal{N}	N	Ò	N	
3/30	7.00 1.pm	\mathcal{N}	N	N	N	0	N	MA
3/3/	7.00 AM		$-\Delta \Lambda$	N	n/	0	h/	1/1
3/3/	9:00 Am	\mathcal{N}	\mathcal{N}	N	N	0	N.	
3/3/	1:00	\sim	N	N	N	0	N	
3/3/	7:00 Pm	\sim	N	\sim	\sim	0	N	190
-								

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.





Inspec		ļ	Status OI	Deterrent S	ystems				
_		<u> </u>	Fence	Bank Cover	Noise Cannon	Wildlife	Observations		
Date 2012		Breach/ Damage (Y/N) ¹		Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
7//	7:00 AM 6:00 PM		N	4	Y				.00
3/ ₁	9100 AM	N	$\frac{N}{N}$		1 7	N	N	N	
	/ 00 PM	N	/V	Y Y	У	<i>N</i>	N	N	X.
$\frac{3}{2}$	6-45M	N	N	1	Y	N	L N	N	XC_
3/7	6.00PM 9.02RM	<u>N</u>	2	$-\frac{1}{2}$	Y Y	N	N	N	M PP
12	PM	N	7	7	7	N	N	10	R C
/ マ 「	<i>3</i> .13€	N	N	Y	4	N	N	N [RC
) i	26 PM	N	N	V	Y	N	N	N	20
/2	ODPM	N	$\frac{N}{N}$	Y	- 	N	N	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	2 C
	315AM	N	N	Y	Y	N	N	N	
	30РМ	N	N	4	Y	On log sheet and 2)	N	NS	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of	Deterrent S	ystems				
·		F	ence	Bank Cover	Noise Cannon	Wildlife	Observations		
Date (SQ) (2)	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
3/4	9.66AM	7	N	Y	Y				
7 /	/:00PM	N	N	Y	Y	N	+ N	N	RC
3/5) : 82 AM		N	1	1	10	N	N	R.C.
/ シ	7:00 PM	N	N	Y	4	1	N	N	TI
$\frac{3}{5}$	9:00AM	N	7	У	Y	N	N	N	RC
	1:60PM	N	Ŋ	Ý	Ý		N	2	RE
3/6	7'00 AM	N	\mathcal{N}	4	y		N	N	RE
	7. PM	N	N	ly	y/	N	1/	n/	4
3/0	7:00 AM	N	N	Y	Y	N	N	N	
/	PM	N	N	Y	Y	N	N	N	C
3/7)500 AM	N	N	4	7	N /	N	N	R
		N	N	4	V	10	N	1	4
3/7 9		N	N	Y	ý	N	N	N	K
/	PM	N	N	Y		N	N	N	70
Ves" (V) ~~					. NE comer F bar		N	N	R/

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

q:\excelimnines\Smints all ___

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Inspection		Status of	Deterrent S	ystems				
ļ	I	Fence	Bank Cover	Noise Cannon	Wildlife	Observations		
2012	Breach/ Damage (Y/N)		Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
$\frac{7/Q}{A}$	7	N	4	<u>/</u>	N	N		
3/8 9.00 1,00	1 //	N	Y	y y	N	N	N	12
7.00	1 ~	N N		Y	N	N	N	\$
5/9 7:°PN		N	7	1/4	N	N	1/	R
3/9 1: PM	<u> </u>	N	/ /	\	N	N	\mathcal{N}	NC.
3 (6.00 AM		N	Ý	Y	N	N	N	JC.
7.00AM		2 2	7	Y	N	N	1	RC RC
/10 /:00PM		N	<u> </u>	, t	N	N N	<u>N</u>	RC DÝ
1\ 7:60PM	N	N	7	7	N	N	7)	St. Co.

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

q:/excel/rouge/Srwuth oil manager

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Inspe	TUON		Status of	Deterrent S	ystems	Wildlife Observations					
		F	ence	Bank Cover	Noise Cannon	Wildlife	Observations				
Date 2012	1	Breach/ Damage (Y/N) ^I	Location (if Y)		Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials		
3/1	9:09M		N	Y	Y	N					
<u>/ </u>	1:00 PM	<u> </u>	N	Y	¥	N	N	2	RC		
/10	† AM	7	N	1	1	N	10	N N	KC		
3 /	7:00 ^{PM} 9:00 ^{AM}		N	Y	Y	N	N		R C		
/17	/:00PM	7	72	7	7	N	N	7	N C		
3/	7:00 AM	N	N	7	J	N	N	10	RC		
		\	N	YA	7	<u> </u>	N	N	gr		
) / k	9:00 ZHBAM	N	\sim	У	Y	$\frac{N}{N}$	N	N	RC		
/13	7/00	N	N	Y	Y		\sim	N	RC		
3/14	AM	N	N	/	Y	1/	N	N	RC		
	(- PM	N	<u> </u>	<u>y</u> '	()	M	N	1/			
3/14	AM PM	N	N	<i>y</i>	<u> </u>	· N	N/	N			
Yes" (Y) e			\sim [<u> </u>	N	IV.	N	O I		

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspe	ction		Status of	Deterrent S	ystems	Wildlife Observations					
		F	ence	Bank Cover	Noise Cannon	Wildlife	e Observations				
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)		
3/15	7:00 AM 7:00 PM	t	N	V	/				100		
3/15	9:00 AM		N	<i>y</i> <i>y</i>	y Y	N	N	N,	E.		
_/.	1:00 PM	N	N		Y	N	N	N			
3/16	7.00 7.00 PM	N	N	<i>y</i>	7/	N	N	N	D		
3/16	9.00 P. AM	N	N	Y	Y	N	N	N	2		
3/17	7:00 AM	.)	N	Y	7	N	N	N			
	7.00 0:00	N	N	7		N	A)	1	4		
3/1	7. AM	N	N	y Y	<i>y</i> /	N	N	N			
3	1:50 M	N	N	1	1	N	N	N			
108	3.44	N	N	<u> </u>	Ÿ	N	N		M.		

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

q:\excel rouge Srwwth oil response

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Inspec	CLION		Status of	Deterrent S	ystems				
		The state of the s	ence	Bank Cover	Noise Cannon	Wildlife	Observations		
Date 20/2	Time	Breach/ Damage (Y/N) ^I		Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
/ 1 t^ 1	9:02M	-	N	Y	Y	N			
	1:0PM		N	Y	Y	N	N	N	RC
3/	6:30	N	N	1	Y	N	N	N	RC
19	8:30 PM	N	N		4	N	N	W	727
/ic [7:00 _{AM}	N	N	Υ_	Y	N	N	N	W
<u> </u>	:00 _{PM}	N	N	Y	Y	2	N	N	RC
	.30 AM و		N	4	1	N	N	N	RC
2018	0°30 PM	N	N	Y	Y		N	N	to
3/2/2	09M	N	N	У	Y	N	N. C. C. C. C. C. C. C. C. C. C. C. C. C.	N	处
	, <i>оС</i> РМ	N	N	Y	<u> </u>		N	N	RC
3	50 9 AM	N	N	Y	Y		N	<u>N</u>	RC
District Control of the Control of t	8 m	\mathcal{N}	N	1	y	$\frac{N}{N}$	N	N	力
	09AM	N	N	4		. /	1/	M	
Z1 1:	oo _{PM}	N	N	Ÿ	V	N	N	NA	26
Yes" (Y) an	itru rocu	i 1) !			NE some E1	N	\sim	N	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	ction		Status of	Deterrent S	ystems	VIII II CO				
		F	ence .	Bank Cover	Noise Cannon	Wildlife	Observations			
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)	
shr	7:00 AM 7:00 7:PM	N	N	4	1	V		 n /		
3/22	9,00 1, AM	N	N	<i>y</i>	<i>y</i> <i>y</i>		N	N	2	
7/	1/ PM 7/20 7/40 AM	N	N	1/	Ý	N	N	1	8	
5/45	7:00 PM	N	N	- - -	17	——N	N	1/	K	
3/23	// AM	N	N	4	<u> </u>	N,	N	N		
3/24	7:00 AM	N	N	Y	1/	N		W	2	
	1. PM 9.00 9. AM	N	N	<i>y y y</i>	<u> </u>	N	N	N	100 80	
124): 00 PM	N	N	y	<u> </u>	N	1/	N	2	
125	AM 7.00	N	N	7	4	- N		No	10 10	
/25 -	7.00 PM	N	N	V J	4	N	N		12/10	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

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Inspecti	VII		Status of I	Deterrent S	ystems				
		F	ence	Bank Cover	Noise Cannon	Wildlife (Dbservations		
2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Property (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
3/25 4	9.00 AM 1.00	N	N		X	N			
3/6	. PM 3℃	N	N		Y	N	N	N	-
	30	7	N	ans the	Y	N	N	N	
/26 9	:PRM	N	N	Υ	7	N N	N	N	W-
2 / 1:	°Рм З :	N	N	У	Ý	N	N	N	RC
	АМ 30 РМ	N	N	J	7		N		RC H
3 / 9:0	5 [®] AM	N	N	Ÿ		2-GEESE CAMPDIAN	N	6	<u>M</u>
	0°β _М 3.5	N	N	Ÿ	Y	N	N	,	R C
3 / 16 28 8	30 AM 30	N	<u> </u>	7	У	N	N	╌╧╌╫	<u> </u>
/ 9.0		7 7	7	<u> </u>	<u> </u>	N	N	1	
//8 [c _{PM}	N	N	7	7	- CANADIAN GOOSE	N	NT	RE RE

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

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Inspe	reson		Status of I	Deterrent S	ystems				
		F	епсе	Bank Cover	Noise Cannon	Wildlife	Observations		
Date 2012		Breach/ Damage (Y/N) ¹		Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
3/29	7-38 PM	N	N	10	1	2 CANADIAN GEESE	N	S-N	<u> </u>
3/	9:08M		N)	Y	<i>y</i>	9-Canadian 0	N	A	K
129	1:00 7:00 AM	N	N	Y	Ý	2-CANADIAN GEESE	N	SN	RC RC
3/30	7.00 7. PM	N	N		7	1/	N	n/	K
3/30	9:00 1:00 1:00	N	N N	<u>/</u>	Y		N	\mathcal{N}	R
2/21	7500 AM	N	N	Y	<u> </u>	N	· N	\(\frac{1}{\lambda}\)	2
>/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7:00 7:00		N	V		N N	N	1/	4
3/	AM PM	N	N	X	Y	N	N	N	
	АМ					/ V	N	N	10
	РМ			9					THE CONTRACTOR OF THE CONTRACT

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

q:\excel\range\Smint ail ----

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Inspe	ection	Any recove	rable oil not	captured by	skimmers? 1			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspect (Initial
7 /1	760 _{MM}		N	N	N	Y	NA	a
>//	6:00 PM		N	\mathcal{N}	N	Y /	NA	1
3/,	9.00 AM	N	N	\sim	N	Y	NA	100
7//	/: 00 PM	~	\sim	Ν	N	Y	NA	177
	6:15 AM	7	N	N	7	Ý	NH-	10-
	6.00 PM	1	N	N	7	7	NA	127
3/	9:00 AM	N	N	7	7	Y	NA	RP
/2	I:OO PM	N	2	N	N	4	NA	17
	6 5 AM	N	N	N	N	7	M	M
/3	6:36 PM	N	N	N	N	Υ	NA	RC
$\frac{3}{3}$	7:00 AM	<u>N</u>	<u>N</u>	N	N	<u> </u>	NA	RP
	1:00 PM	N	N	N	N	Y	NA	2 %
3/) 15 AM	N	N	N	N	Y	PM	# T
14 ("; 36 рм	N	λ	N	N	• 4		Re

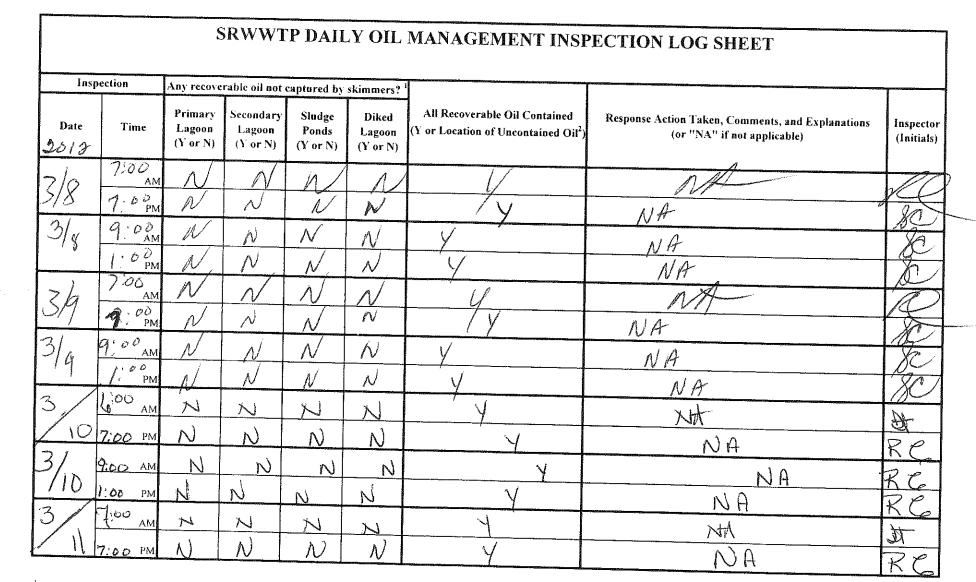
A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E. bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection	Any recove	rable oil not	captured by	skimmers?			1
Date 00/2—	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials)
3/4	9:00 AM	7	N	N	2	Y	NA	Re
11	1:00 PM	N	2	N	N	Y	NFA	RC
3/5	CO AM	N	N	N	N	4	NA.	
<u> </u>	7:00 PM	N	N	N	N	Y	NA	RP
$\frac{3}{5}$	9:00 AM	N	N	N	7		NA	RE
' '	1:00 PM	2	N	Ń	2	У	NA	PP
7//	7:00 AM	N	-1/	N	N	V	n/H	
716	.7:00 PM	N	N	ΛÍ	N	Y	NA	A
3/6	9.00 AM	N	N	N	N	Y	NA	E
4	1.00 PM	N	\mathcal{N}	N	Ν	Y	NA -	X.
3/7	7100 AM	N	1		N	V	nA	18
7-6	7.00 PM	N	$^{\prime}$	N	N	/y	NA	
3/2	900 AM	N	N	N	N	Y	NA	Sc
	1:00 PM	/_	\sim	N	N	· · · · · · · · · · · · · · · · · · ·	NA	AC.

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

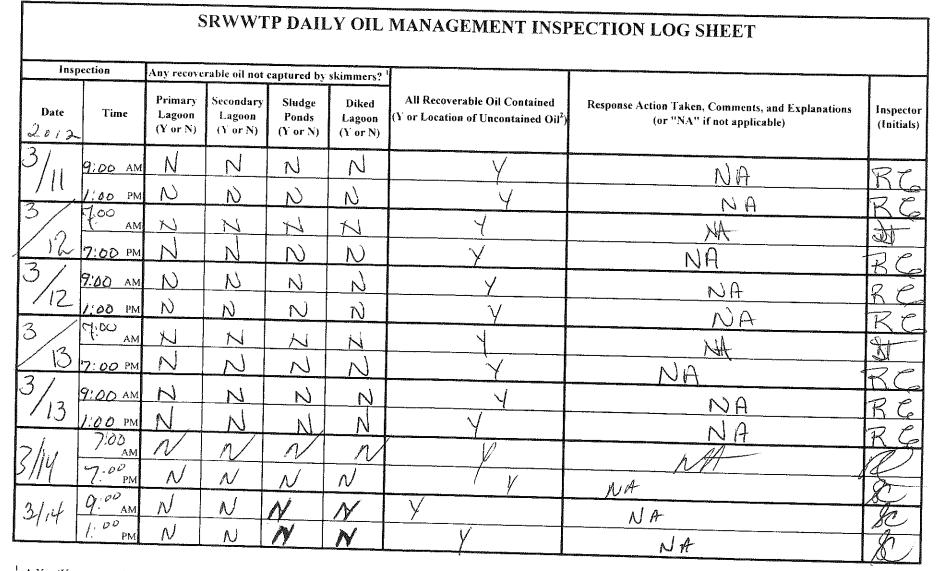
² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).



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A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon	Sludge	Diked	1		
1.	7:00	B	(Y or N)	Ponds (Y or N)		All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspect
7//5	7.00	N	1/	N	N	1	NA	R
/	9.00 AM	//	N	\mathcal{N}_{\perp}	N_{\perp}	/ /	NA	X
3/15	9. AM	N	N	\mathcal{N}	N	<u> </u>	NA	18
<i>ا</i> ر	_ / PM	N	_ <i>N</i> _		N	, y	NA	加
7/16	7:00 AM	\mathcal{N}	N	N	N.	./	nA	1
>//6	7:00 PM	N	N	N	\mathcal{N}	<i>Y</i> /	NA	5
1/16	9:00 AM		N	N	N	Y	NA NA	1
114	LOQM		N	\mathcal{N}	N	4	1):A	6
10) /D O AM	N	_1/	\mathcal{N}	h		n Af	
	7:00 PM	N	N	N	N	1	NA	Sa
111	9:00 AM	N	N	N	N	V	NA	
1+9	1:00 PM	\sim	Ν	N	N	y	NA	14
	OO AM	N	N	N	1/2		IV FI	12
18/8	3:45	XI					Not	J

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner. E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? Primary Secondary All Recoverable Oil Contained Sludge Diked Response Action Taken, Comments, and Explanations Date Time Inspector Lagoon Lagoon (Y or Location of Uncontained Oil²) Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Yor N) (Y or N) (Y or N) 9:00 AM NA 18 1:00 PM N N NA 100 QM M 8:30 M N PM 9:00 AM N 1:00 PM N 630_{AM} N NH 9:00 AM N :00 PM 630 N N 830 PM 9:00 AM NA N 1:00 PM N

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Inspe	ection	Any recove	rable oil not	captured by	skimmers?			1
Date LU (L	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecte (Initial:
3/22	7:00 AM	N	Ŋ	//	r/	Y	NH	14
1100	7. PM	_/_	N	N_{\perp}	N	<u> </u>	NA	10
3/22	1.00	N	N	N	N	<u> </u>	NA	1
	/. PM) 506	N	N	N	\sim	У	NA	P
3/23	AM	N	N	N	N		NA	MO
1 30	7.00 PM	N	N	N	N	/	NA	80
3/23	9.00 AM	N	N	N	N		NA	The state of the s
100	/- PM	\mathcal{N}	N	N	N	Y	NA	RC
124	7500 AM	N	1/	N	N	V	n/s4	AC
	7. PM	N	N	N	N	\checkmark	NA	1
3/24	9:00 AM	N	N	N	N		NA	10C
127	/. PM	N	N	N	N	4	NA	20
125	7-00 AM	N	N	1/	1/	V	h M	
10	7.00 PM	N	N	1	N	\overline{V}	NA	15

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection	Any recove	rable oil not	captured by	skimmers?	1	155 (155 (155 (155 (155 (155 (155 (155	
Date 2013	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
3/25	9:00 AM		N	N	N	У	NA	1
3/	/. PM		N	N	N	Y	NA	1
	(j.30) AM	N	N	N	N	1	NA	
つ	8:30 pm	N	N	N	N		NA	12-
3/2/	9:00 AM	\mathcal{N}	N	N	N	Y	NA	
126	1:00 PM	N	N	N	N	Y	NA	RC.
3/1	6-30	7	N	N	1)	A second	NA	het-
~ \	S PM	N	N	N	N	Y	XX	2
3/27	9:00 AM	_N_	N	N	7	Y	N A	2
- 14	1:00 PM	N	N	N	N	Y	NA	K C
3/	6 AM	N	N	N	N	Y	NA NA	
28	2 ³ 30 PM	N	N	N	N	Ý	NA	11
3/0	7:00 AM	N	_N	N	7	V	NA	
/28 [.00 PM	N	N	N	N	V	NA NA	K C

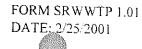
A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

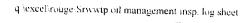
² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Inspe	ection	Any recove	rable oil not	captured by	skimmers?			1
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
3 29	1:30 AM	N	N_	N	N	\\	WA	放
5 , 1	PM	V	N	N	N	Y	MA	14
/29	9:00 am		77	2	7	<u> </u>	NA	RZ
,	1:00 PM 7:00	\overline{N}	N,	N	N,	Y	WA	RZ
3/30	7.00 AM	\mathcal{N}		N	N	y y	M	20
	1	N_{\parallel}	N	N_{\perp}	N	<u> </u>	NA	1
3/30	9,00 MA ,00	$-\mathcal{U}$	N	N	N	<u> </u>	NA	100
7/	PM	\mathcal{N}	\mathcal{N}	N_{\perp}	\mathcal{N}	X	WA	80
5/3/	7:00 AM	N	N	N,	1/	Y	a st	10
	ℓ, _{PM}	N	N	N	N	Y	NA	8
3/_ 1	9:00 AM	N	4/	N	N	X	114	
131	1.00 PM	N	N	N	اللا	ý	N/A	
	АМ				7			
	РМ							

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).







MA 08773843/

March 15, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: February 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant

('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The February monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the February operators' inspection logs. No wildlife was potentially exposed in the month of February.

Please contact me at (313) 845-3217 if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDNRE

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR February 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

		Page
1.0	Introduction	1
2.0	Activities for the Period	1
3.0	Inspection Findings	1
4.0	Evaluation	1,2
5.0	Oil Removal and Disposal	2
Insp	pection Summary and Report Sheets	Appendix A

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period February 1 through February 29, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the February inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in February. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in February 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In February, there was no observation of significant wildlife activities within the SRWWTP fence. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of February 2012.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest			Number of	
		Overflights	Shown		Location	Horn Blasts	Result
116	0	0	No	N/A			N/A

^{*}During dawn to dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	29 days	29 days	None	None

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	ot Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.

SRWWTP - Wildlife Activity Log											
Date 2017_	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)			
2/1	7:00	N	\mathcal{N}	\sim	n/	0	и	10			
3/18	9:00 AM	N	N	\sim	N	0	N				
2/1	1. pm	N	Λ	\sim	N	D	N	1 XC			
2/1	6-80PM	7	2	2	N	0	N	ŔÇ			
2	TO PAR	1 N	N	N	N	0	N	19-			
2	dio AM	7	N	N	7	0	N	W			
6 2	1:00 FM	N	N			0	N	3			
2/2	le:00PM	N	N	N	7	0	N	RC			
23	TOOM	N	_\	N	N	0	N	-16			
	9:00 Am	N	N	N	N	D	N	b			
2/3	1:00 pro	N	Ŋ	N	N	0	N	(A)			
2/3	6:00 PM	N	N	1		0	N	RC			
2/4	7:00 Am	N	N	\mathcal{N}	\mathcal{N}	0	N	12			
2/4	9.00 Am)	N	N	\mathcal{N}	\mathcal{N}	0	N	2			
2/4	1.00 1. pm	\mathcal{N}	N	N	N	0	N	\$0			
54	630 PM	N	N	N.	N	0	N				
US	7/08 M	\mathcal{N}	N	N/	n/	0	n/	BO			
2/5	9:00 Am	N	\mathcal{N}	\mathcal{N}	Ň	0	N				
ocation C	ode: B=	= near Bermed area; D	= near Dike	ed lagoon; $P =$	near Primary lagoon;	S = near Se	econdary lagoon; SL = near Slud	ge ponds.			

SRWWTP - Wildlife Activity Log											
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Igitials)			
2/5	1:00 1:00	N	\mathcal{N}	N	N	\mathcal{D}	# N	C			
35	1:30 PM	N	N	N	N	O	N	1			
	7:00 Am	N	N	N	\mathcal{N}	O	N	120			
2/6	9.20 9.2m	N	N	N	N	0	N	A			
2/6	1.00 1. pm	\mathcal{N}	N	N	N	0	N	1 de			
2/6	7:50	N	N	N	N	0	N	8C			
7	7:06/M	N	N	Ν	X	Õ	N	1			
2/7	9:00 AM	N	N	N	N	Ò	N	RC			
2/7	PH	N	N	N	<u> </u>	0	N	R.C.			
2/7	630pm			N	N	0		RC			
8	(;30Am	N	N	N	N	0	N	S			
- ' /	1:00 AH	N	N	N	N	0	N	RC			
2/8	LOOPH	N	N	N		0	N	RC			
2/8	6:30pm	N	N	N	N	0	N	RC			
591	1,30AM	N	N	N	N	0	N	10			
	7:00 AM	N	N	N	N	0	N	RG			
	1:00 PM	N	7	N	\sim	0	N	RC			
2/9 (0:30 PM	N	N		N	0	econdary lagoon: SL = near Sludge r	RC			

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

	SRWWTP - Wildlife Activity Log													
Date	Duck	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)						
2/10	16:30 AM	7	N	N	N	0	N	坳						
2/10	MA (00: P	N	N	N		0	N	RC.						
2/10	1:00fm	N	N	N	N	0	N	RE						
2/10	6:30PH	N	N	N	N	0	N	RC						
7/1/	7:00 AM	N	N	N		0		A						
Hu	9:00 Am	N	N	N	N	0	N	2						
H(1:00 1:pm	\sim	N	\mathcal{N}	\mathcal{N}	0	W	80						
2/11	7.00 1. PM	N	N	N_{I}	\mathcal{N}	0	N	18C						
2/12	7.92	N	N	\mathcal{N}		0	1	1C						
2/12	9:00 Am	N	N	N	\sim	0	N	C						
2/12	1.00 1.pm	\mathcal{N}	N	N	\mathcal{N}	0	N	E						
2/12	7:00 7:pm	N	N	N	N	0	N	SC						
2/13	7:00 AM	-N	N	N	N	Ø	n /	R						
2/13	9:00 J. Am	N	N	λ	\sim	0	N	80						
2/13	1:00 1:pm	N	N	\sim	\sim	0	N	120						
2/13	6.00	N	\sim	\sim	^/	0	N	120						
2/14	71.09M	N	N	\mathcal{N}		0	N	120						
2/14 ocation C	9:50 9:5m	= near Bermed area: D	N	N	N	0	N	8						

			S	RWWTP -	- Wildlife Activi	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
2/14	1.00	N	N	\mathcal{N}	\mathcal{N}	0	N,	X.
2/14	6.00 gm	N	N	Ν	\sim	0	\mathcal{N}	X
	MOT	N	N	N	N	0	N	- Id
	1:00 AM	N	N	N	N	0	N	RC
2/15	:00PM	N	N	N	N		7	RC
2/15	6:30 PM	N	N	N	N	0	2	RC
3/16	100/10	N	N	N	N	0	N	4
	7:00AM	N	N	7	N	0		RG
	:00 PM	N		N	N	0	7	RC
2/16/	.30 PM	N	N	N	N	\circ		RC
	1:00 AM	N	N	N	7		X	
2/17	1:00 AM	N	N	N	N	0	N	RC
1711	:00 PM	N	N	N	N	0	N	RG
2/17/	:30PM	N	N	N	N	0		RC
18	1.00/1/W	N	N	N	N	0	N	THE PERSON NAMED IN COLUMN TO SERVICE
2/18	1:00 AH	N	· N	N	N	0	N	RG
	:00 PM	N	N	N	N	0	Ň	RC
	:30 PH	N	N	N	N	0	econdary lagoon: SI = near Stude	文と

			S	RWWTP -	Wildlife Activi	ty Log	The state of the s	
Date 2612	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
2 19	7:00 AM	\sim	11/	\sim	\mathcal{N}	0	N	20
9 19	9:00	\mathcal{N}	N	Ν	N	D	N	8º
2 19	1:00	N	N	\sim	N	0	N	1 X
	6.0m	\mathcal{N}	Ν	N	N	D	N	12
	769 Am	\sim	N	N	\sim	0	N	10
	9:00 Am	N	\mathcal{N}	\mathcal{N}	Ŋ	D	N	K
20	1:00 pm	N	N	N		D	N,	X
2 20	6:00	N	Ν	N,	orași,	0	W ,	K
221	7:00	$\mathcal{N}_{\mathcal{L}}$	N	N.	$\mathcal{N}_{\mathcal{I}}$	Ò	N	100
2 21	910gm	\mathcal{N}	N	N	N	0	n	R
2 21	i. pm	2	N	N	N	8	N	R.
3-21	6. pm	N	Λ	N /	N	0	N	X.
	7:00 Am	\mathcal{N}	N			0	N	100
	9:00 AM	N	N	N	N	D	N	THE STATE OF THE S
3-22	1:00	N	N	Charles	N	0	N	
	6:00	Ν	N	N	7	0	Ň	120
\sim ω	0.30/W	N	N	N	X	0	N	- (C
	7:09M	N	N	2	N	0	econdary lagoon: SI = near Studge n	RP

			S	RWWTP -	- Wildlife Activi	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
3 3	1:00 PM	N	N	N	2	0	N	RC
23	6:30 PM	N	7)	N	2	0	N	RE
2 21	Liso Am	N	7	N	N	0	N	W
2 24	9:00 AM	N	N	N	N	0	N	RC
2 24	1:00 PM	N	N	N	7	0	N	RC
	6:30 PM	N	N	N	N	0	N	RC
25	6:30 AM	N	2	N	N	\circ	N	-tt
25	9:00 AM	N	N	N	7	0	N	RC
25	1:00 PM	Ú	N	N	N		N	RC
25	6:30 PM	N	N	Ŋ	7	0	N	RE
226	MAPES	N	N	N	X	0	N	M
26	9:00 AM	N	N	N	2	0	N	RC
2/216	1:00 PM	NN	N	\sim \sim	7	0	N	RE
	6:30 PM	N	N	N	N	0	N	RE
	798m	\mathcal{A}	\mathcal{N}			0	N	10
	9:90 m	\mathcal{N}_{i}	Ń	N	N	0	N	1 A
2 27	1:00 pm	N	N	N	N	2	N	120
27 Location C	6:00	\mathcal{N}	\mathcal{N}	N	\sim	0	econdary largon. St = noor Sludge =	E





			S	RWWTP -	Wildlife Activi	ity Log		
Date 2012	Time (Dawn & Dusk)	B	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspect (Initial
2/28	7.30 AM	N	N	A/	//	Ò	1/	4
2/28	9.00 9.00	√	Ν	N	N	0	N	PA
2/28	1.00	N	Ν	λ	N	0	N	7
2/28	6:00	Ν	N	\sim	N /	D	N	
2/29	7:02/M	N	N	/1/	N	0	N	12
2/29	9:00 Am	N	N	N	Ν	D .	N	1 Do
2/29	1.00 1.0m	\sim	N	Ν	N	0	N	K
9/29	6:00 6:00	N	N	N	N	0	N	
· · · · · · · · · · · · · · · · · · ·								
				· · · ·				
	~							
		near Bermed area: D						





Inspe	ction		Status of	Deterrent S	ystems	Wildlife Observations					
		F	ence	Bank Cover	Noise Cannon	AA HOUSE					
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)		
2/1	7500 AM		N	Y	4	N	$\frac{1}{n}$		10		
,	6:98M		N	<u> </u>		N	N	N	RE		
\mathcal{Y}_{1}	/ AM	N	$\frac{N}{N}$	Y	<u> </u>	<u>N</u>	N	N	A		
2/	7:00m		N	7	y V	N	N	1	D		
* /A	(CPM	N	N	7	7	N	N	N	一也		
2/	Q'OO AM	N	N	4	Y	7/	N		RC		
	1:00 PM	N	N	Y	Y	N	N	N			
6-/2	TIOO AM	N	N	1		N	N	<u>N</u>	#-		
	6:0PM	. \	<u>N</u>	7	<u> </u>	N	N	7	# R C		
43	AM D PM	2	N	X	7, 1	N	N	7	So,		
	7:00 AM	1/	N			N	N	N	K		
14.	JUBO G PM	N	N	7			N	11			
				location (a.			N	\sim \sim \sim	H		

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspe	ction		Status of	Deterrent S	ystems	Wildlife	Observations		· · · · · · · · · · · · · · · · · · ·
		F	ence .	Bank Cover	Noise Cannon	VI IIII)C			
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
2/4	900 AM 1.00	N	N	V	y	W	N	1/	h
/ i	/, PM	N	N	1		$\mathcal{N}_{\mathcal{A}}$	N	N	57
15	6:50 PM		7	7	/_	\mathcal{N}_{-}	N	n	A
7/6	27:00 AM	\mathcal{N}_{\cdot}		V	V		N	N.	
11	(DD PM	M	N	W	Y /	N		1/	A
46	1, DD	N	N	1		N	N		A CONTRACTOR OF THE PARTY OF TH
2/	7. PM 9.00 AM	/V N	N	<i>y</i> //	<u> </u>	N	N	N	
46	/. <i>DD</i> /. PM	N	\overline{N}	-/y -	- / -	<i>N</i>	$\frac{1}{\sqrt{N}}$	N	Q.
	9.60 AM	N	N	4	Y	N	N N	N N	
21.	6:3PM	N	N	1	7	N	N	7	W RC
4/7	9,00 9, AM 1,00 1, PM	2	7 7		1	<u>N</u>	N	N	RC
UNI 11 (7.5)		1 7	12	Υ	7.1	N	N	N	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of I	Deterrent S	ystems	Wilder			
			ence	Bank Cover	Noise Cannon	SHIBILA	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
2/	6 AM		N	Y	Y	N	N		
\sim $^{\prime}$	6:30 PM		N	4	4	N	N		100
2/8	9: 98		N	<u> </u>	Y	N	N		15 G
	1:99 1:30		N		У	N	N		Rと Rと
- / (\	O AM		N,	1	<u> </u>	N	N	7	AL-
	6:3PM	***************************************	N		<u> </u>	N	N	N	R L
4/9	9:984 1:984		N		<u> </u>	N	N		PP
2/_	JSO AM	2 1	N	<u> </u>	7	N	N	N	RP
1/10	G AM		<u>N</u>			N	N	N	1
	9:98 9:98	N	<u>N</u>	7	- 	N	N	2	R C
710	/, 40h	N	N	<u> </u>		N	N	2	RE
	7 /0c) AM	- Y				N	N	N	RC
<u> </u>	7.4R	K/	N	\checkmark	7		N	1/	
"Vec" (V)		76			<u> </u>	N	\sim	Λ	

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspe	FILLIE		Status of I	Deterrent S	ystems	Wildlife Observations					
		F	епсе	Bank <u>Cover</u>	Noise Cannon	AARONE					
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Property (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials		
2/11	9.00 1.00			/_	Y	N					
·6/	1.00 PM		N	Y	Y	N	N	W	To		
2/12	7:08 AM 7:09 PM	N	N	- /		N	N	11	100		
2/	9:00 1: AM	N		/	<i>V</i>	N.	N	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	8		
712	/ PM	N	N		У		N	N	80		
2/13	7 (D) AM / 180	N	N,	V	Y	n/	11/	<i>N</i>	80		
· · · · · · · · · · · · · · · · · · ·	(ø. PM	$-\mathcal{N}$	_N	y .	1 /	N	N	<i>N</i>	8		
1/3	9:00 1: AM 1: 00 PM	N	$\frac{N}{N}$	<u>y</u>	Y	N	N	N.	E		
/	7.00 AM	N	1			W	N	\sim	de		
14	(р. _{РМ}	N	N	7	Ty	N N	N N	M	15		
2/,4	9:00 1: AM	N	N	У		N	N	\mathcal{N}	<u>L</u>		
1'	/: PM	N	Ν	٧′	Y	N	N	N	h.		

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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q/lexcel/rouge/Srwwtp oil management insp. Jou chart

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of I	Deterrent S	ystems	Wildlife Observations				
		F	ence	Bank Cover	Noise Cannon	Wildlife				
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials	
2//	17.08M	<u> </u>	N	7	Y	X	A (
	6.3pm	T	N	<u> </u>	4	N	N	N	ST.	
3/15	9,08M	,	7		4	N	N	N		
> /	1:09M		N	<u> </u>		N	N		K C	
	6:39M	7	<u> </u>	-	7	N	N	X	7/-	
a / T	9: °8M		7	<u> </u>	<u> </u>	N	N	N	RC	
/ // F	1:0PM				7	N	N	N	RC	
	7.'00 AM		N	<u> </u>	7		N	7	RC	
THE	638M		N	Y	Y	N	N.	N	<u>M</u>	
	7:0RM	N	N	Ч	Y	N	N	N	RC	
	1:09M	N	N	Ÿ	Ÿ	N	14	<u> </u>	KC	
	7.00 AM	N	N	7	Y	N		N	M?	
106	1:38 _M	N	N	Y	Y	N	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		R C	

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	ction		Status of	Deterrent S	ystems	Willie	01		
		F	ence	Bank Cover	Noise Cannon	AUDIDA	Observations		
Date 20/2	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
2/18	9: % 1: 4%	-'	N	Ä	Y	N	N.	l NI	RP
)	7:00 AM	N	N	L Y		N	N	N.	RC
2/19	6'00 PM	4.1	N	14	4/	\mathcal{N}	N	1	IZ.
2/19	1.00 PM		N	Y	Y	N	N,	N	
2/_	7:00 AM	N		7		\mathcal{N}	N	N	
120	(0,00 (0, PM	N	N			W	N	1	
120	7. AM / OD / PM	N	N	7	- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -	N	N	$\frac{\mathcal{N}}{\mathcal{N}}$	n
121	7.00 AM	N	N	<i>y</i>	7	N N	N	N	D
	(p. PM 9:00	N	N	1 /	11/	N	N	N	K
15/2	AM / O D PM	N	N	-1/		\mathcal{N}	1/	N	16
			eccription -4	/	<u> </u>	\mathcal{N}	\sim	n	XV

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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DATE: 2/26/2001

q. lexcel rouge Srwwto oil management inch lands ...

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	ystems	Wildlife Observations				
			ence	Bank Cover	Noise Cannon	Wildlie				
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials	
2/22	7,00 AM 6 PM	N	N	¥.	Ý	- h/	1/	2		
2/	9:00 9:00	N	N	Y	y	N	N	N	Æ	
122	/ 00 PM	N	N	У	У	N	$\frac{1}{N}$	N	10	
/a - 1	6.30 6.30 6.9M	N	N	1	-	N	N	N		
`	9,00 M	N	N	Y	7		N	N	RC	
7	/:°PM):30	N	N	γ	Y	N	N	$\frac{N}{N}$	KC RC	
61	(å AM (å ³ PM	7	72	-		N	N	N	H	
/24	9: 9M	N	N	Y	Y	N	N	N	RC	
/	1: 00m 1:30m	N	N	<u> </u>	<u> </u>	N	N	7	KCRC	
/ ~ -	3PM	N	$\frac{N}{N}$	X	1	N N	N	N	W RC	

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Inspec	ction		Status of I	Deterrent S	ystems	Walic			
			епсе	Bank Cover	Noise Cannon	WHITH	Observations	[
Date 2012	1	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
2/25	9: °AM	·	N	Y	У	N			77 %
	1:98M	N	N	Y	Y	N	N	1 1	RG
2/	S AM		N	1	Y	N		IN	
	6:39M	0	N	Y	Y	N	N	N	
2/	9:0AM	N	N	Ý	V	N		N	KC
126	PM	N	2	Y	y	N		N	RG
1/-	7.00 AM		N	Y	V	1/	N	N	KC
461	Ç. PM	N	N	1	14	N	N		
2/21	9.00 4. AM		N	Y	ý	N		JN	
/**/	∫:00 PM	N	N	У	V	N	N	\sim	X.
2/28	7.00 2. AM	N	1/	V		/ X	N	\sim	&C
, 90- 50	(0.PM	N	N	-	4	N		N	K
	9:00 AM	N	N	\(\frac{1}{2}\)		Medicary framework (Management of the Control of th	N	N	D
1/28	1.00 PM	N		7	7	<u>N</u>	N	N	D
				T .	7	N	\sim	\sim	8

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

q:\excel-rouge Srwwtp oil management insp. log sheer

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Inspe	ction		Status of I	Deterrent S	ystems	Witans	Other was a second seco		·
		F	епсе	Bank Cover	Noise Cannon		Observations		
Date 20/2		Breach/ Damage (Y/N) ^I	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
2/29	7:00 AM 6:00 PM	N	N N	4	4	N		1	// <u>/</u>
2/2	9:00 AM		N	7	Y	N	N	N.	2
129	/, 00 /. PM	N	N	ý	Y		N	\sim	De h
	AM PM								<u>, </u>
	AM								<u> </u>
	РМ								
	AM PM								
	AM								
	РМ								
	АМ								
4	PM								

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

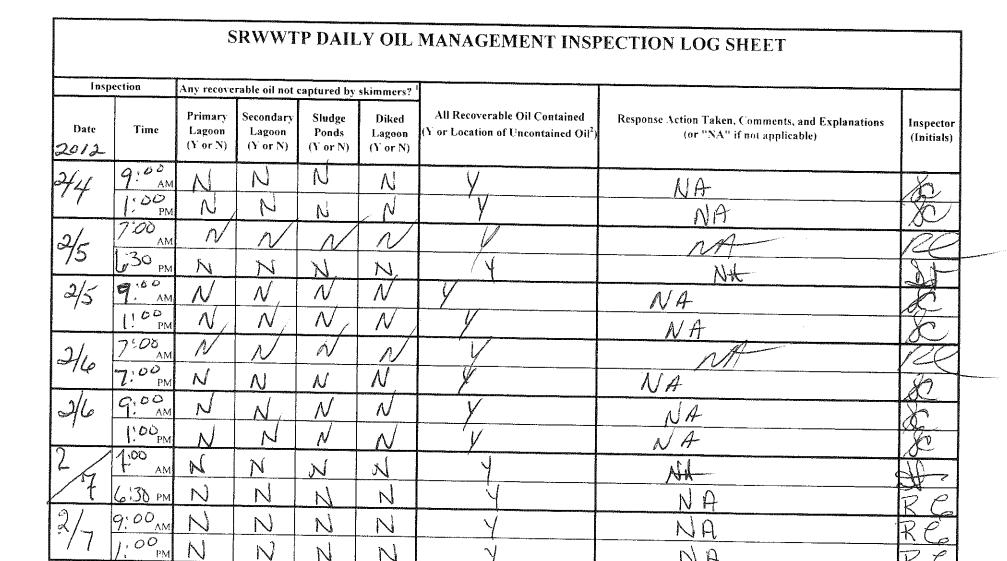
² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon Ponds Lagoon (Y or Location of Uncontained Oil²) (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 7500 (2:00 PM NA 160 NA AM 00 N N NA PΜ .00 AM *6*∶00 рм N OO AM 00 PM 00 M AM •00 _{PM} OD NA AM 00 NA PM 7:00 AM 30

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).



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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon **Ponds** (Y or Location of Uncontained Oil²) Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) 2012 (Y or N) (Y or N) 130 N N N the AM N (:30 _{PM} N 9:00 AM 1:00 PM N N AM 6:30_{PM} 19:00 AM N .00 PM :30 AΜ 6:30 PM 9:00 AM .00 N A

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

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		S	RWWT	'P DAIL	Y OIL	MANAGEMENT INSP	PECTION LOG SHEET	
Insp	ection	Any recove	rable oil not e	captured by	skimmers?			
Date Id L	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
٤/,	1:00 I:00	N	N	N	N	Y ,	NA	B
/ *(ξ , 1 (VI	N	N	N	N	<u>'</u>	NA	M
2/12	7:00	N	N	N	N	<u>'</u>	M	R
	7:00 PM	7	N	N	\mathcal{N}	L / Y	NA	18/
2/12	9:00 AM	N	N	N	N	Y	NA	1
	I O'PM	N	\sim	N_{\perp}	N	Ý	NA	100
1/1>	7:00 _{AM}	N	1	_h/	N	V	NA	120
7/2	6.00 PM	\mathcal{N}	\sim	\mathcal{N}	N	X (NA	1
2/	9:00 AM	N	N	\mathcal{N}	N	У	The state of the s	JA.
//3	J.OD PM	\mathcal{N}	N_{\perp}	N	N_{\perp}	Y	NA NA	To
ا له 4	7:00 _{AM}	N	N	A/	1/	V	M	12
, -	6:00 PM	N	N	\mathcal{N}	N	У	NA	1
4	9:00	N	N	N	N	14	NA	10
114	(DO PM	N	N	N	$N \square$	Y	NA	1/X

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

Insp	ection	Any recove	rable oil not	captured by	skimmers? ¹			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspecto (Initials
2/5	Lioo WW	H	N	N	N		NA	H
$\frac{2}{2}$	<u>6:30</u> рм	N	N	N	N	Ÿ	NA	17
2/12	9:00 AM		N	N		Υ	NA	Re
1/5	1:00 PM	<u>N</u>	7	N	N	Ý	NA	RO
2/	700 AM	N	N	_\	7	\(\lambda\)	XIA-	3 1
<u>/ 16</u>	6:30 _{PM}	N	N	N	N	Y	NA	RE
2/, ,	9:00 AM	N	N	N	N	Y	NA	RC
(16	1:00 PM	N	N	N	N	ΥΥ	NA	Ro
2/	7:00 AM	N	<u>N</u>	N	N		HA	DO.
	630 PM	N	N	N	N	4	NA	RC
	9:00 AM	N	N	N	N	Y	NA	校で
	1:00 PM	N	N	N	N	Y	NA	RZ
2-/	7:00 M	N	7	N	N	4	NA	111-
<u> </u>	6:30 PM	Ŋ	1	N	N	V	NA	提 _了

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil²) Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9:00 AM 1:00 PM 200 NA 00 N NA 00 PM7:00 150 N 0.00 Ν AM OD РМ 9:00

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
Inspe	ection	Any recove	rable oil not e	captured by	skimmers? 1		The state of the s	
Date 2012	Time	(Y or N) (Y or N) (Y or N) (Y or N)		Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)	
2/22	7.00 AM	N	N	N	N N	Y Y	NA	10
422	9:00 AM	N	N		N	7	NA	A A
2/23	6:30 AM	N	77	7	N		NA NA	
<u> </u>	6:30 рм 9:00 лм	7	N	7	22	<u> </u>	NA	RC
2/	1:00 PM 6:30 AM	22	2	7	N	Y	NA NH	K C
2/	4⁶³⁰ рм 9:00 ам	7 7	2 2	77	7 7	Y	NA NA	RC.
2/24	1:06 PM 1:30 AM	777	7 7	N	22	<u> </u>	NA	RC
/ 15	6:30 pm	N	N	N	N	y	NA-	Re

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Primary Secondary Sludge Diked Inspector Date Time (Y or Location of Uncontained Oil²) (or "NA" if not applicable) Lagoon Lagoon **Ponds** Lagoon (Initials) 2012 (Y or N) (Y or N) (Y or N) (Y or N) 9:00AM :00 PM N ΛM 266:30 PM 9:00 AM NA 1.00 PM N NA PM 9:00 N N NA AM 2/21 00 N NA 2/28 100 N N N NA PM 00 N NA Λ AM.00 N N NA

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? Primary All Recoverable Oil Contained Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon (Y or Location of Uncontained Oil2) Ponds Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 7:00 NA 000 AM 100 N NA AM PM AM PM ΔM PM ΛM ·PM AM PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).



MID 087738431

February 15, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: January 2012 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant ('SRWWTP')

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The January monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the January operators' inspection logs. No wildlife was potentially exposed in the month of December.

Please contact me at (313) 845-3217 if you have questions on the information in this report.

Very truly yours,

James E. Earl, Manager Environmental Engineering

Enclosures

cc: Mr. John Craig, MDNRE

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR January 2012

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

	Page
1.0 Introduction	1
2.0 Activities for the Period	1
3.0 Inspection Findings	1
4.0 Evaluation	1,2
5.0 Oil Removal and Disposal	2
Inspection Summary and Report Sheets	Appendix A
Oil Hauling Manifests	Appendix B

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period January 1 through January 31, 2012. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the January inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in January. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in January 2012. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In January, there was no observation of significant wildlife activities within the SRWWTP fence. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

6,500 gallons of oil-water mixture were hauled off-site in the month of January 2012. Copies of the manifests for the loads are attached in Appendix B.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
124	0	0	No	N/A	0	N/A

^{*}During dawn and dusk inspections

SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

Fence Breach	Bank Cover Oiled	Cannon Operating	Wildlife Observed	Exposed Wildlife Observed
None	31 days	31 days	None	None
	<u> </u>	<u> </u>		

SUMMARY OF DAILY OIL MANAGEMENT LOG

Report of Re	coverable Oil N	lot Captured	(by Skimme	ers)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.

^{*}During dawn and dusk inspections

			S	RWWTP -	Wildlife Activi	ity Log		
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/)	7:00 PM	\mathcal{N}	N	N	N	Ò	\mathcal{N}	R
1/1	9:00 AM	N	N	N	N	0		RC
1/1	1:00 pm	N	N	N	N	0	N	RC
	5.33M	2	7	N	N	0	N	#
1/2	7:20 Am	\mathcal{N}	N	N	\mathcal{N}	0	N	VC
1/2	9:00 AN	N	N	N	N	0	N	RE
1/2	1:00 PH	N	N	N	N	0	N	RC
1/2	6.ºPM	N	N	N	N	0	N	M
1/3	7:02m	\mathcal{N}	\mathcal{N}	N	N	Ò	N	je
1/3	9:00 AM	N	N	N	N	0	N	RC
1/3	1:00 PM	N	N	N	N	0	N	RC
1/3	Par Bu	N	N	7	N		$\mathcal{N}_{\mathcal{L}}$	H
1/4	7:03 7:03 7:03	N	//	/		0	1/	4
1/4	9:00 9:00	N	\mathcal{N}	N	N	0	\mathcal{N}	
14	1:00 1:pm	N	\sim	N	\mathcal{N}	D	N	
1/4	4:00 PM	N	N	N	N		N	RC
1/5	7:00AM	N	N	N	N	O	N	J.
1/5	9:90	Ν	\mathcal{N}		N	0	econdary lagoon; SL = near Sludge	X

near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

			S	RWWTP -	Wildlife Activi	ty Log		
Date 25/2	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
45	1:00 Ipm	\mathcal{N}	N	N	\sim	D	\sim	R
1/5	6DD pm	2	N	N	N	0		Re
1/6	70/m	N	N	N	7	0	N	#
16	9:00 Am	N	\mathcal{N}	N	N	D	\mathcal{N}	
1/6	1:00	N	\mathcal{N}	N	\mathcal{N}	0	N	
1/0	6:00pm	N	N	Ŋ	N		N	RC
1/1	7:00 m	N	N	N	N	0	n/	140
1/1	9:00°	N	N	N	N	0	N	XI.
1/1	100	N	N	N	N	D	N	
1	6 Pm	N	N	N	\mathcal{N}_{i}		N/	
1/8	7:00M	N	N	N	N	0	N	R
1/8	9. Am	N	\mathcal{N}	N	N	D	N	X
1/8	PM	N	N	\sim	N	D	N	R
1/8	Lieo Pm	N	N	\mathcal{N}_{-}	N.	0	N	Øt-
1/9	7: Am	N	\sim	//	N	0	N	RE
1/9	9:00 Am	\mathcal{N}	\mathcal{N}	N	N	0	N	L
1/9	1:00 1:pm	N	N	N	N	0	N	B
1/9	6ºPm	N	N	N	N	0	Secondary lagoon: SL = near Sludg	-

			S	RWWTP -	Wildlife Activi	ity Log		
Date 20 i 2	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)/	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/10	7:00 AM	N	N	N	N	0	V	10
410	9:00 9:Am	N	N	N	\sim	0	N	5
1/10	1:00m	ρÚ	N	\mathcal{M}	\sim	0	\sim	8
10	6 PM	N	N	N	N	0	N	一起
1/11	7:00 Am	N	1	N	n/	0	N	100
1/11	9:00	N	N	N	N	0	N	1R C
1/11	1: 00 1: PM	N	N	N	N	\Diamond	N	RC
<i>Y</i> 11	6:00pm	N	N	N		\bigcirc	N,	RC
1/12	7:00 AM	\sim	N	N	\mathcal{N}	0		140
Y 12	9:00 Am	\mathcal{N}	N	\mathcal{N}	\sim	٥	\mathcal{N}	
1/12	1:00	\sim	N	\sim	\mathcal{N}	0	\mathcal{N}	J.C.
1/12	5.30 pm	N	N	N	N		N	RE
1/13	7:00 Am	1/	\sim	\sim	//	0	N	- A
1/13	9.00 1. pm	N	N	N	\sim	0_	N	8
413	1:00	N	Ν	\mathcal{N}	\mathcal{N}	0	\mathcal{N}	
1/13	6:00m	7	N	N	<u>N</u>	0	N_{ℓ}	BC
1/14	7:00 m	1/	N	N	\mathcal{N}	8	\mathcal{N}	10
414	9. PM	Λ	N	\sim N	N	D	econdary lagoon: SI = near Sluy	SC.

SRWWTP - Wildlife Activity Log								
Date スロノン	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/14	1:00 1:pm	N	N	N	N	0	N	X
1/14	Co. WPM.	2	2	N	N	0	N	R.C
1/15	8.00 8.AM	\mathcal{N}	N	N	N	0	Ŋ	120
1/15	9.00 AM	\mathcal{N}	N	N	Ň	0	N	120
1/15	1.00	N	2	2	N	D	N	XC.
1/15	6:00pm	2	2	2	N	\circ	N	RG
116	10 M	N	2	7	N	\circ	N	
1/16	9:00 Am	N	\geq	N	N	D D	N	S.
1/16	1.00 PM	N	2	N	N	0	N	120
1/16	6:00pm	2	2	N	N	0	N	RC
17	1,00 AM	Z	N	N	N	6	N	4
1/17	9:00 9: AM	~	N	N	N	D	N	8
1/17	1:00	N	N	N	N	0	N	D
1/17	6:00pm	2	N	7	N	0	N	R.C
1/18	AM	\mathcal{N}	\mathcal{N}	N	\mathcal{N}	0	N	re
1/18	9:00 Am	N	N	N	N	D	N	K.
1/18	1:000	N	$-\mathcal{N}$	7	N	0	N	
Location (630 PM	N	N	N	7	0	econdary lagoon: SL = near Sludge	4

Location Code: $\mathbf{B} = \text{near Bermed area}$; $\mathbf{D} = \text{near Diked lagoon}$; $\mathbf{P} = \text{near Primary lagoon}$; $\mathbf{S} = \text{near Secondary lagoon}$; $\mathbf{SL} = \text{near Sludge ponds}$.

SRWWTP - Wildlife Activity Log								
Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/19	700	N	N	\mathcal{N}	N	0	N	RO
1/19	9:WAH	N	2	N	N	0	N	RG
1/19	1:00 PM	N	N	N	N	0	N	RG
1-19	PW900	N	N	N	N	0	N	At -
1/20	7,8%	n/	n/	N	<u> </u>		<u> </u>	
1/20	9:00 AM	N	N	N	N	0	N	RE
1/20	1:00 PM	2	N	N	N	0	N	RG
20	1.00 PM	N	N	N	N	0	\mathcal{N}	W
1/21	7.0 Am	N	N	N	<i>n</i> /	0	\sim \sim	100
1/21	9 00 AM	N	\sim	N	N	0	N	
1/21	1: pm	N	7	N	\sim	0	N	
1/21	6:00pm	2	N	\mathcal{N}	N,	0	N	RC
Ihr	7:20 Am	N	n	N	\sim	0	\mathcal{N}	RC
<i>1/22</i>	9:00 Am	2	N	7	N	D	N	E
V/22	1:00 pm	N	N	7	N	0	N	6
1/22	60 PM	N	N	N	N/	0	N	RC
1/23	7 Zm	N	Δ	//	1/	0	1	R
1/23	9:00 Am	N	7	N	7	D	econdary lagoon: SL = near Sludge r	2

SRWWTP - Wildlife Activity Log								
Date 2012	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/23	1:00	7	N	2	N	D	7	XC
1/23	6.99	N	N	Ŋ	N		N	RC
1/24	750RM	N	N	N	N	0		10
i/24	9:00 Am	N	λÌ	~	2	0	N	
1/24	1:00	N	2	Ν	~	Ō	N	(X)
1/24	6:00 pm	N	N	N	\sim	0	N	RC
1/25	Tion	N	N	N	N	0	N	TE
1/25	9:00 Am	\mathcal{N}	N	N	N	0	\mathcal{N}	DO
1/25	1:00 PM	\sim	\sim	N	N	0	N	SC
1/25	6.Dom	N	2	N	N	0	N	RC
1/26	7:90m	N	N	N		0		14
1/26	4:00	\sim	Ν	N	\sim	0	\mathcal{N}	80
1/24	1:00 pm	N	N	Λ	N	0	<i>N</i>	180
The	600Pm	N	7	N	N	0	N,	1
1/27	7:00 Am	N	N	N	N	0	N	IC
1/27	9:00	N N	N	\mathcal{N}_{\perp}	N	0	N	
1/27	1:00 pm	N	N	N	\mathcal{N}	D	ν,	XC
//a/ Location (6 pm	N_	\sim	N	N	D	econdary lagoon: SL = near Sludge	X

Location Codé: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.

Date	Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
1/28	7:00 ATM	N	N	N	N	0	N	K
1/28	9: AH	N	N	N	N	0	N	RZ
1/28	1:00 1:0M	N	N	7	N	0	N	RC
128	C. COPM	Ν	N	N	N	0	\mathcal{N}	30
129	7100	n/	N	N		0	N	14
1/29	9:00AM	2	N	Ν	N	0	N	RC
1/29	1:00 PM	N	7	N	N		Ν	RC
29) PM	N	N	N	N	8	N	9
1/30	7:00 AM	N	N/		\mathcal{N}	0	N	RO
1/30	9:02M	2	N	N	N		N	RC
1/30	1.00		N	N	N	0	N	RE
30	(30Pm	N	N	N	N.	0	N	t
/3/	7200 AM	N	N	N	\mathcal{N}	Ò	n/	ICO
1/31	9:00 AM	N	N	N	7	0	N	RC
1/31	1:00 PM	N	N	N	2	0	N	RC
31	630PM	N	N	N	N	0	N	
X								

Location Code: B = near Bermed area; D = near Diked lagoon; P = near Primary lagoon; S = near Secondary lagoon; SL = near Sludge ponds.





Inspe	ction		Status of l	Deterrent S	ystems	\\/:1.31:c_	OL		
			епсе	Bank Cover	Noise Cannon	3)IIIII V	Observations		
Date 2012	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
/)	7.00 AM	N	Δ	4	Y .	N	1		100
<i>'</i>	D PM		<u> </u>	7/	Y	N	N	N	
/1	9:00 _{AM} 1: 00 _{PM}		$\frac{N}{N}$	¥	- 1	N	N	N	RC
. /	7.70 AM	N	N		Y	N	N	N	RC
1/2	¿)°°PM		N	X	1	N	N	1	KO
10	9:0am		N	4	Y	N	N	Ŋ	THE STATE OF THE S
/2	/: <i>00</i> pm	N	N	Ý	Y	N N	N	N	RC.
/3	7.60 AM	N	N	Y	V	1/	N	L N	K C
,	JOO PM		_ N_	Ý	4	N	L N		
/3	9:02 _M	N	<u>N</u>	<u> </u>	Y	N		$\frac{\lambda}{\lambda}$	2 P
/	1:00 7:00	N	N	Y	Y	N	N	N.	RP
4	AM C PM	$\frac{-}{\sqrt{1+}}$	N	4	4	<i>N</i>		1//	
		<u> </u>			Y	N	N	71	RC

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	ction		Status of	Deterrent S	ystems	X/::A1:C2	The first state of the state of		
			епсе	Bank Cover	Noise Cannon	what e	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
44	9:00 1:00	1	_N_	X	Y	N	N	N	B
1/	5 AM		<u> </u>	Y	y	N	N	N	B
1/5	J AM		N	\ \ \ \	7	N	N	N	M
1/5	9: 00 AM		N	Y	<i>y</i>	N/	N		B.C.
12	1: 00 PM	N	Ν	Y	Y	N	N N	N	
1/2	7:00 F AM	<u>, , , , , , , , , , , , , , , , , , , </u>	N	Y	<u> </u>	N	N	N N	3
1/	6 PM 9:00 1:AM		<u>N</u>	Ý	Y	N	N	N	RG.
10	I. PM	$\frac{1}{\sqrt{1}}$	_//	$-\frac{\lambda}{\lambda}$			<i>Y</i>	N	R
1/-	7;00 AM	N	N			\sim \sim \sim	N	Λ	St.
		1)	N	1/	/Y			11/	
1/1	9:00 1:00	N	7	Y	У	N	N	$\frac{N}{N}$	Z I
"YP (Y)	. PM	$N \perp$	Ν	<u>'Y</u>]	У	Ν	· N	N	2

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	ction		Status of	Deterrent S	ystems	Willie			
			епсе	Bank Cover	Noise Cannon	Whalle	Observations		
Date 2012		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
1/8	7:00 AM 100		N	/	Y	N	N	0/	
1/	G PM	47	77_	<u> </u>	1	N	N	N/ S	
1/8	/ AM	4/	N	X	9	N	N	N	R
1/0) 100 AM	N	\sqrt{N}	V		<u> </u>	N	N	D
1/9	J.OPM	<u> </u>	N	1/4	7	<i>N</i>		2	R
ι/	9:00 AM	N	N	Y	Y		N	N	
19	/ PM	N	N	У	y	//	N	N	
1/10	700 AM	N	N	Ý.	4	0/	2/		SC.
	G. PM	N		(4)	/Y	N	N	<i>n</i> / N	
1/0	9:00 9: AM	N	N	Y	У	N	N	1/	
,	/. PM	N	N	<u> </u>	Y	N	N	N	
1/11	7500 AM (450 (450 (450)	N	A	4	4		N	<i></i>	R
### ### ##############################		N	N		<u> </u>	N		N	Re

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspe	ction		Status of	Deterrent S	ystems	White			
		-	епсе	Bank Cover	Noise Cannon	Wildle	Observations		
Date 2012		Breach/ Damage (Y/N) ^I	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
	9:60 1.00	N	N	Y	Y	N		n.\	70
'	7:00	n/	N	Y	У	N			RC Pr
1/12	<u>ам</u> 5 30рм		N	7		\sim	N	1	
<u> </u>	9.00 1 AM		N	7	y	N	N	2	RE
112	1.00 PM	N	N	<i>y</i>		<i>N</i>	N	N	X
1/15	7:0 6 AM	N	Λ	V	γ	N	N	N	8
113	G PM		N	14	/ \	N			4
/13	9:00 AM		N	Ý	У	N	N	N	TO A
<i>(</i>	1. PM 7.00 AM		N	<u> </u>	Y	N	N	N	Z
1/14	AM L. DPM	N	N				N	N	R
(//	9.00 AM	·/	$\frac{10}{N}$	<u>ү</u> У	y 7	N	N	7	RC
714	/- 00 /- PM	N	N	ý l	' y	N	N	N	<u> </u>
M11 (14)		uiron 1) J				1V	N		X

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

DATE: 2/26/2001

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	ction		Status of I	Deterrent S	ystems	Wildie			
		F	епсе	Bank Cover	Noise Cannon	Wilding	Observations		
Date 2013-		Breach/ Damage (Y/N) ^I	Location (if Y)	Oiled (Y/N)	Operating Property (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials
1/15	8:00 AM	N	N	У	У	N	N		l for
	9.00 9.00 AM		N	7	Y	N	N		RE
1/15	7. AM ∫ 0∂ J PM		N		У	N	N		
1/	7 00 AM	1/	N	<u></u>	4	N	N	N	1
116	G PM		N	Y	Y	N	N	N	
114	9: AM		N	У	У	N		N	RC
<u>'</u>	PM	<u> </u>	N	<u> </u>	У	N	<u>D</u>	\(\lambda\)	6
117	COPM	N N	7 2	7	7	N	N	N	H
	9:00 AM	7.7	N	7	7	N	N	N	RG
111	/: 00 /: PM	N	N	Ý	Y	N	N		K.
1//8		N	\sim	<u>Y</u>	V	N	N	<u> </u>	
' '	(.38m	N	N	4	14	N	N	N	H

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	ystems	NACCA NEC		*	
			ence	Bank Cover	Noise Cannon	Wildlie	Observations		
Date コロ1ル	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
1/18	9:00 1:AM	N	N	Y	Y	N			h
/	1: PM 7:00		N	<u> </u>	Y	N	N	I N	8
1/19	AM 1 00 PM	\	N	7	7		N	1	A
1/10	9:00 M		\mathcal{N}	<u> </u>	· · ·	N	N	N	the
/19	I OP	N	N	Ϋ́	Y	N	N	N	RC
1/20	7:00 AM	N	N	Y	Y.			N	RC
	3.09M 3.02M	_	N	\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ 		N	N	N	
/20 [/, AM /. 60 PM		N	<u> </u>	7	N	N	· N	RC
4	7:00 AM	N	$\sqrt{}$	ĺ		$\frac{N}{\alpha}$	N	N	RG
14 1	2. PM	N	N	4	4	N	N	1	NO
1 T	7. CO 7. AM	N	N	<i>Y</i>	Y	N	N	$\sqrt{}$	L. C.
	- РМ	N	Ν	y J		V	N	N	The

¹ "Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	tion		Status of	Deterrent S	ystems	Wildie	Observation		
			ence	Bank Cover	Noise Cannon	Wilding	Observations		
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
17.2	7.60 AM		N		Y				
00	(PM	,	7	Y	À	N	N	IN	RZ
22	AM DD PM	-	2	Y	<u> </u>	N	N	N	D
b>	7.00 AM	N	N	4	1/		N		C
123	(o; PM	2	<u>N</u>	Y	/	N		N	RC
23	1. AM 1. DO PM	$\frac{N}{N}$	$\frac{N}{N}$	7	7	N	N	N .	K
1	7:00 AM	N				N	N	N	KC.
	6:0PM	N	N	7	Ty	N		N	
24	9:00 1:00 1:00	N	N	Y	Y	N	7	2 2	RC.
/	PM FORM		<u> </u>	7	<u> </u>	N.	N	N	
25	PM	7	7		7		N	N	W
711 (3.5)								N I	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

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Inspec	tion		Status of	Deterrent S	ystems	Wildlife	Observation		
		F	`ence	Bank Cover	Noise Cannon	3HDB W	Observations		and the second
Date 20/2		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Property (Y/N)²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
1/25	9.00 1.00	/\	N	Y	Ý	N	N	N	Ka,
/	7:00	<i>'</i>	<u>N</u>	<u> </u>	<u> </u>	N	N	N	1/2
1/26	LOO PM	///	N	4	4		N	N	19
1/2/	9.00 AM	2	7	У	V	N	N	N	A T
126	/ 2D PM	N	Ŋ	Y	Ý		<u> </u>	N	8
1/27) 400 AM [4:100		N	4	У	n/	10	N	100
1/	0.00 PM	N	N_{\perp}	<u>/ </u>	<u> </u>	W	N	N	
127	DD PM		N N	-	\rightarrow	N	W	N	
1/0	7)500 AM	N	N/		7	N	I W	N	R
1/28	J.'60	N	N	4	Ty		The state of the s	2/	
1/92	9. 60 AM	N	N	Y	Y	N	1	7	N RC.
100	<i>J. 00</i> PM	N	N	<u> </u>		N		3	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.





Inspec	uon		Status of I	Deterrent S	ystems	Wilalie	Observations		·
			епсе	Bank Cover	Noise Cannon	w and a			
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspecto (Initials)
1/29	7:00 AM		N	Y	Y	N		N	MO
1 /	LIPPM OLOD		7		<u> </u>	N	N	N	
1/29	7: °R 1: °R		\sim	- Y -	Y	N	N	N	RC
1/-	7:00 AM	, /	<u>N</u> N	<u> </u>	- 1	<u> </u>	N	1/2	RE
1/30	30 6 PM		N	77	7 4	N N	1/	N.	R
, ,	9:0 Д м	N	N	Υ .	4	N	1	N	W
/30	, 09M	N	N	Υ	Y	N		1	KC
/3/	7:00 AM	-1	N		4	N	1	n/	
	(30 PM	N		1	<u> </u>		N	X	
111	9: 92 1: 92	7 2	N	7	У	N.	N	N	RC
	AM	17	N	7	7	N	N	N	RE
\nearrow	РМ								

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible. ² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon Lagoon Ponds Lagoon (Y or Location of Uncontained Oil²) (or "NA" if not applicable) (Initials) (Y or N) (Y or N) 2012 (Y or N) (Y or N) 7:00 5.30 N PM 9:00 AM N 1700 PM 7:00 AM 6,00 PM V 9:00 AM 1:00 PM 7:00 100 9:00 AM /:00 PM 7100 AM



A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time Lagoon (Y or Location of Uncontained Oil²) Lagoon (or "NA" if not applicable) Ponds Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 9:00 AM 00 ΑM OO; AM (100 PM AM 00 7500 AM6100pm 9.00 N NA DD

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., Nh corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAII	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	·
Inspe	ection	Any recove	rable oil not	captured by	skimmers? 1			
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
1/2	7:00 AM	N	N	N	N	Y	NH	R
100	J;∞O PM		N	N	N	/ \	My	
1/8	9,00	N	N	N	N	У		To
7 0	L.OD PM	\sim	N	N	N	Y	NA	B
1/9	7:00	N	N	N	N	У	NA	THE
' '	[,00 _{PM}	7	N	N	N	<u> </u>	Al	
1/9	9/00	N	N	N	N	1/	NA	K
19	1:00 PM	7	N		N	' Y	NA	6
1/16	7,00 AM	N	\mathcal{N}	N	N	4	M	10
1/10	[.]\S PM	7	N	7	7	. / Y	. XIA	FF.
f	9:00 AM	$\mathcal{N}_{\mathcal{I}}$	N	7	\mathcal{N}	Y	NA	8
110	1:00 PM	\mathcal{N}	N	N	N	_/ y	NA	
1/1	7,00 AM	N	N	1/	N		NA	12
1//	6:00 PM	N	N	N	2	()	NA	RC

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Primary Diked Inspector Secondary Sludge (Y or Location of Uncontained Oil²) (or "NA" if not applicable) (Initials) Date Time Lagoon Lagoon Ponds Lagoon (Y or N) (Y or N) (Y or N) (Y or N) 9:00 AM . DD PM 7:00 9:02 N NA AM 112 N NA PM 7100 AM 6 DPM 00 N Ν NA AM 05 PM 7:00 AM 5 (X) PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner. E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Primary Diked Secondary Sludge Inspector Date (or "NA" if not applicable) Time (Y or Location of Uncontained Oil²) Lagoon Lagoon Ponds Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 8:00 A NA N 1/15 AM N DO PM 00 1/15 AM OD PM AM 6:00 PM 0.00 AM 1/16 00 $C\Omega$ N AM¥ ». b() рм 00 NA AM 00 NA 7:00 AM 1,130

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner. E. bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	PECTION LOG SHEET	
Insp	ection	Any recove	rable oil not	captured by	skimmers? ¹	1990		
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
1/18	9:00 AM	Ν	N	Ŋ	N	У	NA	Ê
//8	1:00 PM	N	N	N	N	Ý	NA	12
1/19	7:00 AM	N	N	N	N	4	M	
1/17	J.OO PM	N	N	N	N	_ / Y	XK	A-
1/	9:00 AM	-2	7	N	N	У	NA	RC
'/19	1:00 PM	7	N	N	LN	Y	NA.	RE
1/20	7:00 AM	N	N	N	N) /	NA	
1/20	€ CO PM	7	N	N	2	14	ÀH.	3
	9:00 AM	N	N	2	2	Υ	NA	RG
/20	1:00 PM	N	2	N	2	Υ	NA	De.
1/-	7,00 AM	N	N	N	N	Ý	n.A.	100
1101	6:00 PM	N	7	N	7	14	NA	RE
1/21	9:02 AM	N	N	2	N	Y	NA	Sa.
1041	/: DD PM	Ν	2	. 7	2	Ų	NA	1/c

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
lnsp	ection	Any recove	rable oil not	captured by	skimmers? 1	7,4		
Date 2012	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
1/22	7500 AM	N	N	N	N	V	NA	140
1/22	6:00 PM	N	· N	N	N	(4	NA	RG
1100	9:00	N	N	N	N	У	NA	180
1/22	LOD PM	N	N	N	N	У	NA	1 /A
1/23	7:00	N	N	N	N	У	NA	R
	6:00 PM	7	N	N	N	14	NA	RR
1/23	9:00 AM	N	N	7	7	У	NA	12
120	(D b PM	2	7	N	2	Y	NA	h
1/20	7:00 AM	N	N	N	N	V	244	
1124	6:00 PM	2	N	N	2	14	NA	RE
1/24	9. DM	7	\mathcal{N}	\mathcal{U}	N	Y	NA	h
127	E PM	N	N	N	N	ý	NA	SC.
1/ 1	₫;οΟ ΔΜ.	7	N	N	N	Y	NA	
125	(e:00 PM	7	7	7	N	Y	NA	RC

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Primary Secondary Response Action Taken, Comments, and Explanations Sludge Diked Inspector Date Time (Y or Location of Uncontained Oil2) Lagoon Lagoon (or "NA" if not applicable) Ponds Lagoon (Initials) (Y or N) (Y or N) (Y or N) (Y or N) .00 N N PM 7500 6.00 PM N N N 20 6 PM N AM .00 N PM 700 6:0Q_M 9:00 AM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doctsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Secondary Response Action Taken, Comments, and Explanations Primary Sludge Diked Inspector Date Time Lagoon (Y or Location of Uncontained Oil²) Lagoon **Ponds** Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Yor N) (Y or N) (Y or N) 7/00 9:00 am 6:30 PM 9:00AM OO AM 9:00 AM 1:00 PM N AM PM

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, I: bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible. AND a note in Comments column (see samples above).

APPENDIX B

Oil Hauling Manifests

	NIFORM HAZARDOUS 1 WASTE MANIFEST			L., ago Tor	Emergency Respo	ise Phone	4. Manifes	t Tracking	Number	MB No. 2050-
1 1	Generator's Name and Mailing	MINISTER Address	,; ;			165			0469	9 GB
	Severstal North Am				Generator's Site Addre	ss (if differen	than mailing addre	ess)	W W W	
3	3001 MWer Aman	15.7								
1_	Deallogia Mi asta:	1 USA	*	,				Carlotte .		
Ger	nerator's Phone: ransporter 1 Company Name	7575 3 -775 -875		i						
1							U.S. EPA ID	Number		
7 T	MES HOPSE EN	ARCHMENTAL SPA	Lt.C			-	1			**
1'.	ransporter 2 Company Name			e grand figure			U.S. EPA ID	Mumbar	E . 11/22 77	
<u> </u>							1	ricitious		
8. D	esignated Facility Name and S	lite Address					U.S. EPA ID	Museban		
1	ENVIROSOLIOS, LL EQUI WYCHING AV	A. Genu ex					0.0, 🖽 🗡 🖂	Mannet		
	DEAPEORN AT 49	125 USA					6.3	Doğuty	1074	
Faci	lity's Phone: 313-502-3						i			
9a.	9b. U.S. DOT Description (including Proper Shipping Ma	ame, Hazard Class, ID Number		1 40.5 (<u></u>		· · · · · · · · · · · · · · · · · · ·	
НМ	and Packing Group (if any))			10. Conta		11. Total	12. Unit	13 Mac	te Codes
	1.	Za			No.	Туре	Quantity	Wl./Vol,	to. veas	ole Codes
	AAAA F. OWEG ON	from Water Treatmen			(834	The state of	13500			
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	2.					 				
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										Action of the second se
	3.	<u> </u>							1	
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		Sec.			-			Į.		O Personal Communication of the Communication of th
	4.				1		e de la companya de l		The state of the s	
							1	- 1		
					l l			1		
						·	į			1
15. G	pecial Handling Instructions and the second Handling Instructions and the second Handling Instructions and the second Handling Instruction and Instructions and Instructions Instructions Instructions Instructions Instruction Instructio	SERTIFICATION: I hereby de	eclare that the contents of this oper condition for transport acco	consignment are f	ulfy and accurately des	cribed above	by the proper ship,	oing name, a		
15. G m E	ENERATOR'S/OFFEROR'S C arked and labeled/placarded, a xporter, I certify that the conten- certify that the waste minimizati	EERTIFICATION: I hereby de and are in all respects in prop its of this consignment confor ion statement identified in 40	بالأسلامية	EPA Acknowledge quantity generate	ment of Consent, ir) or (b) (if I am a small	usi Anasittitie	ntai requiations. If	oing name, a export shipi		packaged, Primary
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MID 005-320254

February 14, 2012

Ms. Diane Sharrow Enforcement Officer RCRA Branch Land and Chemical Division USEPA, Region 5 77 West Jackson Blvd. Chicago, IL 60604-3590

RE: DSC Ltd., Tandem Mill Pond, Gibraltar, Michigan

Dear Ms. Sharrow:

On behalf of DSC Ltd., enclosed is one (1) copy of the "Monthly Progress Report of Continuing Emergency Measures" at the Tandem Mill Pond for January 2012. This report submitted pursuant to the requirements of Section VII.C of Administrative Order in Docket No. R7003-5-99-003.

If you have any questions or comments regarding this submission, please contact me at (313)-215-0135.

Sincerely,

Michael Wilkinson

President

DSC Ltd.

Enclosures

CC: Mr. Ed Novak/MDEQ

Detroit Field Office

Cadillac Place

3058 West Grand Blvd., Suite 2-300

Detroit, MI 48202-6058

MONTHLY PROGRESS REPORT CONTINUING EMERGENCY MEASURES

TANDEM MILL POND DSC LTD. GIBRALTAR, MICHIGAN

Reporting Period: January 2012

Introduction:

DSC Ltd. (DSC) is undertaking response activities at the Tandem Mill Pond (TMP) at its Gibraltar Plant as required by EPA Administrative Order No. R7003-5-99-003. The Order requires DSC to stop the exposure of migratory birds to solid wastes at the Tandem Mill Pond (VII.A) and to protect wildlife and wildlife habitat from any harmful effects of solid waste (VII.B).

The response activities implemented at the TMP by DSC are described in the Continuing Emergency Measures (CEM) Work Plan and CEM update. The goal of the CEM is to prevent any migratory birds from being exposed to oil present on and around the TMP, thereby preventing any harmful acute, sub acute, or chronic effects. DSC intends to accomplish this objective by removing oil present on the surface of the TMP, by covering oil present in the soil around the TMP, and by deterring wildlife from using the TMP.

Section VII.C of the order requires DSC to submit monthly reports describing activities taken in response to the order, and the results of all sampling and monitoring. This Monthly Progress Report presents detailed information on the actions taken at the TMP during the January 2012 reporting period.

Reporting Period Activities:

Oil Reduction and Removal Activities

Oil capture or removal activities are conducted at the TMP whenever the recoverable oil could be safely accessed. In January 2012 staffing at the Tandem Mill Ponds was approximately three times per week with the exception of holiday weeks. No removal of contained oil was performed this reporting period due to insufficient funding available for recovery. The pond was covered with ice during the month. See attached Oil Inspection Reports.

Wildlife Deterrents

The remediation activities have reduced the size of the TMP from six acres to one acre. Hence DSC is operating one propane noise cannon with a firing interval of 5 to 8 minutes. The Phoenix Wailer Mark III bird deterrent device is not operating due to malfunction.

During the month of January 2012 the noise cannon only operated on the January 3, 2010 because the pond was frozen the remainder of the month preventing wildlife contact with contaminated water. Normal operation of the noise cannon is approximately three times per week at half day intervals on directions from DSC Ltd management. Wildlife inspections conducted during the month of January 2012 did not indicate the presence of wildlife on the ponds. (Refer to the attached Wildlife Deterrence Inspection reports).

• Sampling and Characterization

 No additional sampling or characterization was performed during January 2012 in conjunction with the routine monitoring for Dissolved Oxygen and pH.

Monitoring and Inspection

 DSC personnel conducted inspections of the Oil Management and Wildlife Deterrents on an approximately three day per week basis during January 2012. Copies of the inspection logs for January 2012 are included in Appendix A, with the noted exceptions.

Evaluation

o Based on the inspections and observations during other activities at the pond wildlife has not been exposed to oil on the ponds.

The evaluation criteria for the TMP (Section 6 of the December 11, 1999 CEM Work Plan) were evaluated as follows:

- 1. Is all recoverable oil captured within containment areas at the end of each work day? Yes, oil is contained.
- 2. Are all areas of floating oil (greater than sheen) covered, when not subject to response activities, to prevent wildlife contact? During the reporting period oil was reported. Standard practice is to contain any accumulated oil in the east end with a harbor boom and to remove as soon as sufficient quantities are present.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? No. Lack of operation and revenue at DSC has prevented the purchase of supplies and equipment to address this concern.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Work Plan? No, the Phoenix Wailer was not operational during the reporting period. The noise cannon only operated on January 3, 2012, the remainder of the month the ponds were frozen preventing wildlife contact with contaminated water. Normal noise cannon operation is approximately three times a week at half day intervals at the direction of DSC Ltd management.
- 5. Have inspectors and wildlife technicians observed waterfowl on the TMP? No.

 Are required and specified materials and equipment on hand and in usable condition or properly deployed? Yes, booms & pads are available and deployed appropriately.

Due to continued adverse financial conditions at the facility, DSC is not in a position to implement any additional control measures at this time.

- TMP Closure Plan Summary
 - The water in the TMP is pumped at a rate of 100 gpm (100 gpm X 60 min/hr X 10 hr/day X 5 day/week= 300,000 gals/wk); pH is adjusted using 50% sodium hydroxide and discharged into Retention Basin #1 for treatment. NOTE: No water has been pumped in ~two (2) years by order of MDEQ. After the TMP has been substantially drained, a clay berm will be constructed from south to north dividing the 5 acre pond into two cells. The remaining water in the east cell will be pumped into the west cell prior to excavation. The sediment and rag in the east cell will be excavated to a depth of at least 2 feet, and the excavated material placed into the west cell. The underlying soil in the east cell will be sampled and verification analyses will be performed in accordance wit the MDEQ approved Interim Response Activity Work Plan. Following receipt of acceptable analytical results, the east cell will be covered with clay. The second phase consists of dewatering the west cell, consolidating the sediment into the southern end of the west cell, and mixing the sediment with fly ash and clay to improve the compressive strength of the material to allow covering with clay.
- TMP Closure Activities-No additional activities during this reporting period.
- Impediments to Closure Summary
 - The lack of operations and income revenue by DSC to fund closure and the reduction of staff continue to be the leading impediments to completing the closure activities during this reporting period.

APPENDIX A

Oil Management Inspection Log Sheets Wildlife Deterrence Inspection Log Sheets DSC Environmental Daily Discharge Readings

DSC Ltd. Trenton Plant NPDES Inspection Log

agayi kanaga

INSPECTOR: ROBERT GLEICH SHIFT: WEEK-OF 12 dech AN-2012 LOCATION MON TUE WED THU FRI SAT SUN NOTES OUTFALL NO. 001 TIME NOTREATMENT NO DISCHARGE рН TEMPERATURE (F) Fon January 2012 OBSERVATION STOP DATE START SED. BASIN PUMP

TUSPECTOR TRAVELLE Q. HELE DSC-001A

TAN 2012 MILLTRONIC DATE -TIME VISUAL FLOW mgp TEMP INTEGRATOR PH D.Q. 4 2 1-31-12

Monthly PCB Capacitor Inspection SCR Storage Area

DATE: - 3 (- 1	Lamentonii -	**	
INSPECTED: Dobert G	a. De		
	YES	NO	COMMENTS
LEAKS IN CAPACITORS	A PROPERTY OF THE PROPERTY OF	1 James Marie	
BREACH IN CONTAINMENT			
FLOOR COATING OK	. Lamentando		
% STORAGE AREA AVAILABLE	99%	. **	
DEBRIS IN CONTAINMENT AREA		- Lander	
AREA POSTED WITH PCB SIGNS	Light and the same of the same		
NOTES:		:	
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DSCLTD

TRENTON FACILITY

DRAINED PCB TRANSFORMER MONTHLY INSPECTION

LOCATION	SERIAL#	LEAKS YES	LEAKS NO	*C.M. WITH YES	IIN 20 FT. NO	DATE DRAINED:	DRAINED BY:	PCB YES	LABEL NO	INSP.#
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2-SINTER PLANT	3234181		X		` \	Jul-00	Safety Kleen	X.		12
3-SINTER PLANT	C857598		×		X	Jul-00	Safety Kleen	<u> </u>		13
4-BLOWER SWITCH GEAR ROOM	9159737		, de		X	11/3/97	Dynex	LX		42
5-SCARFER	C168574		X		Á	Jul-00	Safety Kleen	IX.		45
6-SOUTH MOTOR ROOM-BASEMENT	C181441				400	Jul-00	Safety Kleen			60
7-SOUTH MOTOR ROOM-BASEMENT	C158554					Jul-00	Safety Kleen			61
8-SOUTH MOTOR ROOM-BASEMENT	C158552					Jul-00	Safety Kleen			62
9-SOUTH MOTOR ROOM-BASEMENT	C158553		UTT	IEK		Jul-00	Safety Kleen			63
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11-SOUTH MOTOR ROOM-BASEMENT	C158560					Jul-00	Safety Kleen			65
12-SOUTH MOTOR ROOM-BASEMENT	C158555					Jul-00	Safety Kleen			66
13-SOUTH MOTOR ROOM-BASEMENT	C158556	46			Quer .	Jul-00	Safety Kleen			67
14-SCR ROOM	D590905		X		X	Jul-00	Safety Kleen	$\perp \chi_{\perp}$		78
15-SCR ROOM	D590912		X		×	Jul-00	Safety Kleen	1 X		
16-SCR ROOM	D590916		· ·)	Jul-00	Safety Kleen	and the second second		niga teraj kiloabi kira kerataran ana ana ana ana ana ana ana ana ana

ADDITIONAL NOTES / COMMENTS;	South Motor Room BA	sement Flooren
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D. Zurakowski Revised: 1/30/02

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For The Week Beginning Monday 61-02-2012

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A "Location" entry (e.a. NE corner, E bank, center) requires notification of Plant Supervisor as soon as possible

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For The Week Beginning Monday Staus of Deterrent Systems Inspection Wildlife Observations Bank Cover Fence **Bird Netting** Noise Cannon Material Inspector Exposed Wildlife Observed Wildlife Observed (Initials) Operating Location All Areas Covered Time Date Damage Breach Damage Breach (N or Species Oberserved) (N or Species Observed)3 Properly Except for Response Moved $(Y/N)^1$ $(X/N)_{i}$ (Y/N) $(Y/N)^1$ (Y/N)Activities (Y/N)2 $(Y/N)^{2}$ Posed is BEING REMEDIATED AM 12 PM SM AM 031 X X -1-16-Nove NONC 2:0 À HICK ¥ NONE MONE PM 8:00 Norc HX trozew-2.00 PM POND Freder N 4.2 Noud 8:00 W.K POND TROZEN - N Move AM 2:00 BED TROZEN - N NONE MK PM 061 POUR FROZER - N MONC H.K. AMPOND FROLEN - N Nort HIC PM 67 I AM 12 PM 68/ AM BEING DEME diated PM

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AND THE EXPLANATIVE IMPLIES OF DATES OF MAINTAGEMENT INSCRICTION LOG SHEET

For The Week Beginning Monday Inspection Recoverable Oil Present Process All Recoverable Oil Contained Inspector Comments, Explanations and Response Action, Taken Sewer TMP (V or Location of Uncontained Oil) (Initials) Date Time Discharge (N or Locations of Oil) $(Y/N)^{1}$ 8:00 POND FROZEN HV AM 2:00 B.K. YOUD FROZEE Mq· 8.00 HK. 1 6 * \$ 16 AM7:00 H.K. . 66 0 1 * (PM 8:00 £ g 11 AM HK. 2100 ş & 11 HK 35 PM 8:00 10 HIL £ 2 . MA LIPM 142 # £ or de 1 4 . . . 1 8 LLK 3 1. 10 . . . ·AM p 8: " HK. 16 ě. Š. PM 11 AM PM .. AM PM

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² A "Location" entry (e.a. NE corner, E bank, center) requires notification of Plant Supervisor as soon as possible.

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[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet and 2) notification of Plant Supervisor as soon as possible

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For The Week Beginning Monday /- 23-20/2

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A "Location" entry (e.a. NE corner, E bank, center) requires notification of Plant Supervisor as soon as possible

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January 17, 2012

Via Certified Mail - Return Receipt Requested

Diane M. Sharrow (LR-8J) Enforcement Officer RCRA Branch Land and Chemicals Division U.S. EPA, Region 5 77 West Jackson Boulevard Chicago, IL 60604-3590

Subject: December 2011 Monthly Progress Report at Schaefer Road Waste Water Treatment Plant ('SRWWTP')

**

Reference: Severstal Dearborn, Administrative Order Docket No R7003-5-00-001

Dear Ms. Sharrow:

The December monthly report as specified in our Continuing Emergency Measures Workplan is enclosed. This report contains the December operators' inspection logs. No wildlife was potentially exposed in the month of December.

Please contact me at (313) 845-3217 if you have questions on the information in this report.

Very truly yours

James E. Earl, Manager

Environmental Engineering

Enclosures

cc: Mr. John Craig, MDNRE

US Fish & Wildlife, Ann Arbor Office



CONTINUING EMERGENCY MEASURES

MONTHLY PROGRESS REPORT FOR December 2011

SCHAEFER ROAD WASTE WATER TREATMENT PLANT SEVERSTAL DEARBORN DEARBORN, MICHIGAN

Prepared By: Lan Trinh

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

TABLE OF CONTENTS

		Page
1.0	Introduction	1
2.0	Activities for the Period	1
3.0	Inspection Findings	1
4.0	Evaluation	1,2
5.0	Oil Removal and Disposal	2
Insp	pection Summary and Report Sheets	Appendix A

CONTINUING EMERGENCY MEASURES MONTHLY PROGRESS REPORT SCHAEFER ROAD WASTEWATER TREATMENT PLANT

1.0 Introduction

This report has been prepared to fulfill the requirements of Section 8.0 of the Severstal Dearborn Continuing Emergency Measures (CEM) Workplan for the Schaefer Road Waste Water Treatment Plant, Dearborn Michigan, revised October 19, 2001.

2.0 Activities for the Period

This report covers the period December 1 through December 31, 2011. Activities for the period included continuation of ongoing efforts in oil removal with the existing skimmers, removal of any observed floating oil not collected by the skimmers, regular wildlife and equipment inspections, and operation and maintenance of the propane cannons. The fencing around the perimeter of the Primary Lagoon and on the ramps at the Secondary Lagoon remained in good condition. Netting was in-place over the north end of the Primary Lagoon and across the East and West Sludge Ponds. Geotextile at the water's edge of the Primary Lagoon was also in-place to prevent contact with stained slag. Mylar ribbons were in place on the west property boundary fence, the fence surrounding the Primary Lagoon, and along the west side of the Secondary Lagoon in order to reduce attraction to migratory birds.

3.0 Inspection Findings

The summary of daily inspection findings is provided in Appendix A. Copies of the inspection reports are also provided in Appendix A. No repetitive use of the treatment ponds and lagoons was observed in the December inspections. Daily Inspections show low activities observed throughout the area.

4.0 Evaluation

4.1 Exposure

No wildlife was observed to be exposed in December. No repetitive use of the treatment ponds has been observed during the most active periods (dawn and dusk), indicating that the measures taken pursuant to the CEM workplan have been effective for deterring acute exposures. It also indicates that activity leading to chronic exposure is not occurring.

4.2 Other Criteria

- 1. Is all recoverable oil captured within containment areas at the end of each workday? Yes, all recoverable oil at the Primary and Secondary Lagoons and Sludge Ponds is captured within containment areas at the end of each workday. At all locations, oil not captured by skimmers is removed regularly by vacuum truck.
- 2. Are all areas of floating oil (greater than a sheen) covered, when not subject to response activities, to prevent wildlife direct contact? No, there are occasionally a few locations where small patches on the Secondary Lagoon are not recovered. These areas are generally difficult to access and are removed by vacuum truck when they occur. Oil on the active sludge lagoon is removed by the installed skimmer and by vacuum truck if not in reach of the skimmer. Use of these specific locations by wildlife has not been observed by the operators or during the expert surveys.
- 3. Is all soil with visible oil contamination covered to prevent wildlife direct contact? Yes, soiled slag at the water's edge of the Primary Lagoon has been covered. The geotextile at the water's edge of the Primary Lagoon was in-place. The netting installed over the north end of the Primary Lagoon and over both Sludge Ponds covers stained soil at the edges of both ponds.
- 4. Are all wildlife deterrent systems in good repair and/or operating as specified in the CEM Workplan? The balloons, air dancers, and Mylar ribbons are frequently inspected and replaced as needed. Deterrent fences were in place and propane cannons operated properly in December 2011. The operators have been through a training session on operation of the wildlife deterrent systems, the CEM Workplan, and bird recognition and deterrence.
- 5. Have inspectors and wildlife technicians observed waterfowl on the ponds or lagoons or within the SRWWTP fence? In December, there was no observation of significant wildlife activities within the SRWWTP fence. Activities within SRWWTP fence are summarized in Appendix A.
- 6. Are required and specified materials and equipment on hand and in usable condition or properly deployed? As noted above, specific deterrent systems continue to be implemented. At this point, this criterion is applicable to the inspections, cannons, balloons, ribbons, air horns, booms, fencing, netting, geotextile, and oil skimming. Materials for these systems are generally on hand and usable.

5.0 Oil Removal and Disposal

No oil-water mixture was hauled off-site in the month of December 2011.

APPENDIX A

Inspection Summary and Report Sheets

SUMMARY OF WILDLIFE ACTIVITY LOG*

	Bird		Interest		Number of	
Inspections	Observations	Overflights	Shown	Location	Horn Blasts	Result
124	0	0	No	N/A	0	N/A
				:		
			L			

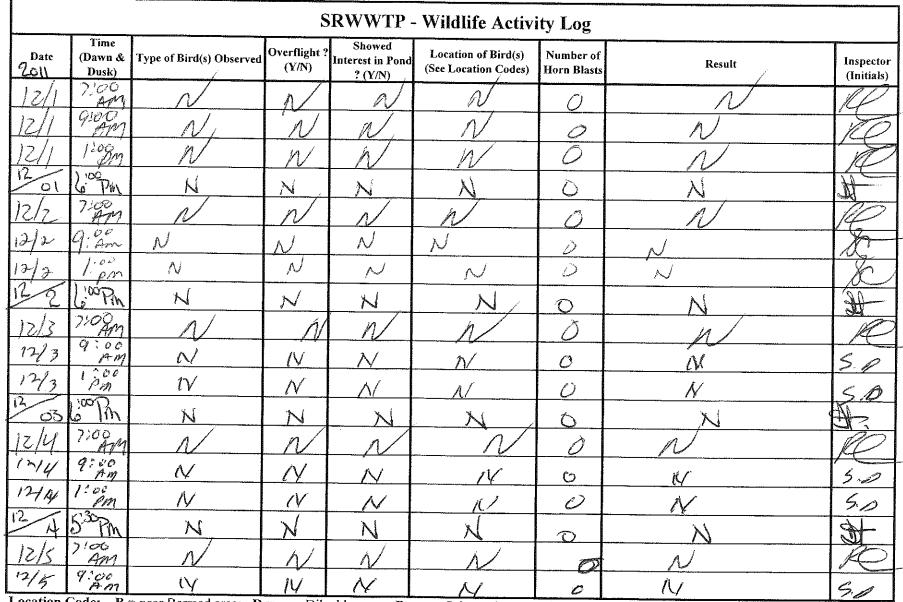
^{*}During dawn to dusk inspections

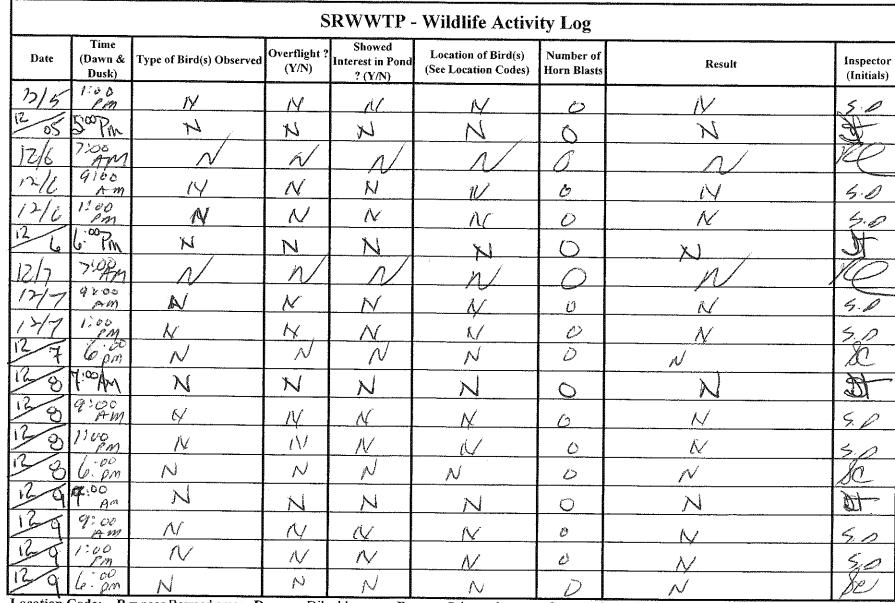
SUMMARY OF DAILY WILDLIFE DETERRENCE INSPECTION LOG

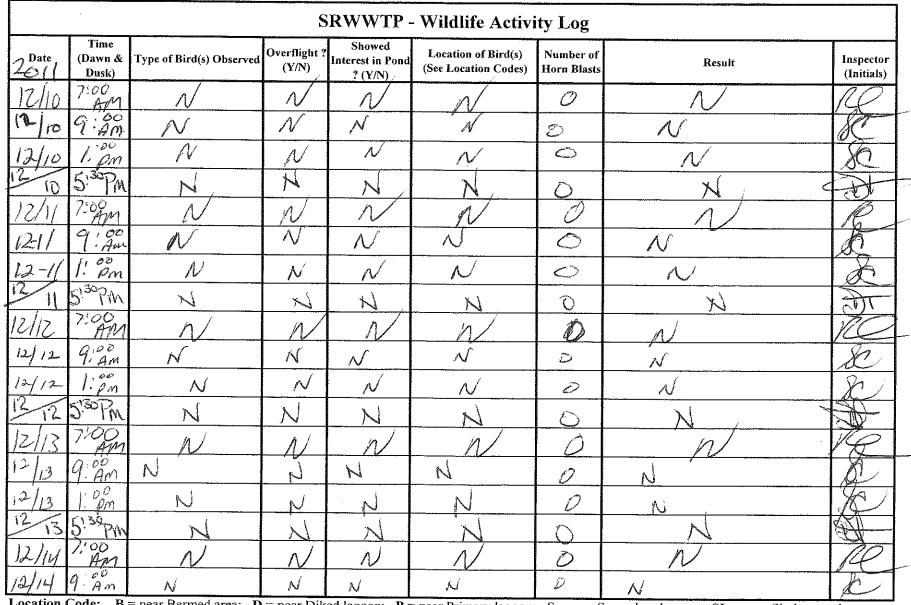
Fence	Bank Cover	Cannon		Exposed Wildlife
Breach	Oiled	Operating	Wildlife Observed	Observed
None	31 days	31 days	0	None

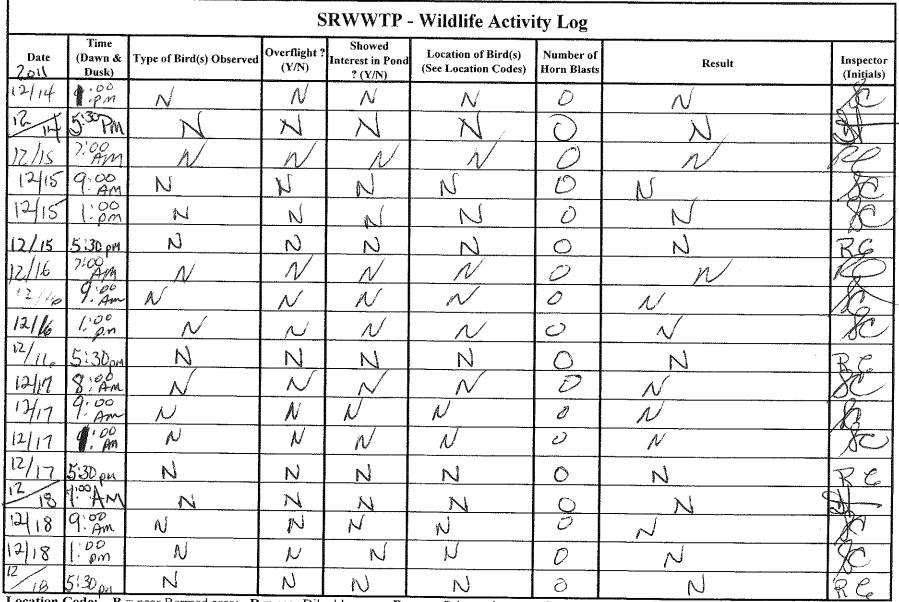
SUMMARY OF DAILY OIL MANAGEMENT LOG

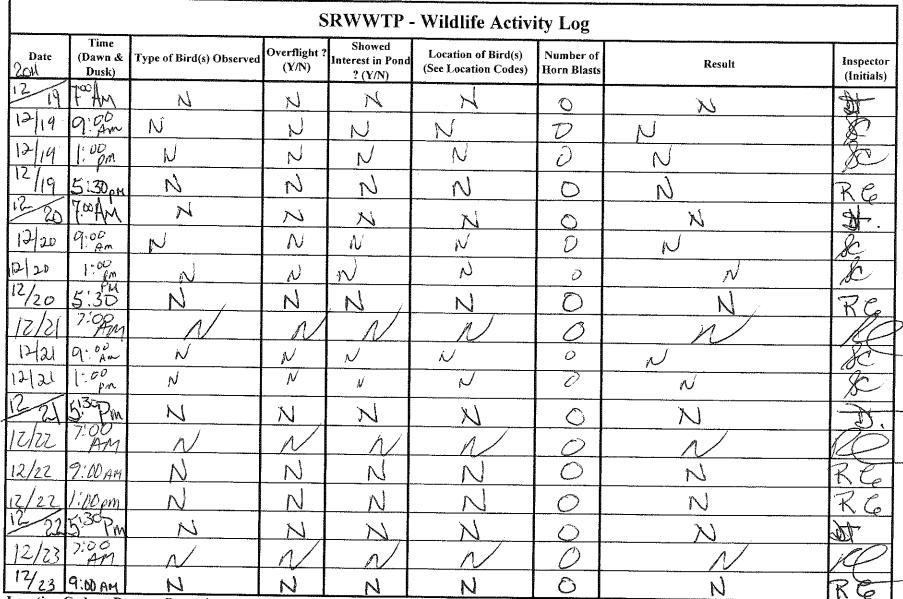
Report of F	Recoverable Oil	Not Capture	ed (by Skimn	ners)	
Primary	Secondary	Sludge	Diked		
Lagoon	Lagoon	Ponds	Lagoon	Oil Contained	Comments
No	No	No	No	Yes	Oil not captured by skimmers is removed on a daily basis.











		· · · ———	S	RWWTP -	Wildlife Activi	ity Log		
Date 20 (Time (Dawn & Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
12/23	1:00pm	7	1)	7	N	0	N	RC
13/23	5^{30} M	7	7	N	N	$\tilde{\mathcal{O}}$	N	H
12/24	7:00 AM	1/	\sim	N	N	0	N	10
12/24	9.00 Am	Ń	7	N	\sim	D	N	D.
12/24	1.pm	N	\sim	Ν	N	D	N	J.C.
12/24	530рм	N	N	N	N	0	N	RY
12/2S	7:00	\sim	N	N	N	0	N	140
1425	9:00	N	\sim	\sim	\sim	0	N	100
12/15	1.80	N	N	N	N	D D	N	D
12/25	5'30 pm	N	N	N	N	0	N ,	RG
12/26	7:00 AM	N	1	1/	N	0	n/	120
12/26	9 4	N	N	N	N	D	N	
12/26	1:00 pm	\mathcal{N}	N	N	N	0	N	&
12/26	5:30 pm	N		7	N	0	N	RC
12/27	7:00 AM	\sim	N	N	N	0	1/	VAC
12/27	9:00	N	N	N	N	0	N	10
12/27	1.00 1.pm	N	N	N	N	(پ	N	82
12/27	5:30pm	7	N	7	N	0	N	RC

Location Code: $\mathbf{B} = \text{near Bermed area}$; $\mathbf{D} = \text{near Diked lagoon}$; $\mathbf{P} = \text{near Primary lagoon}$; $\mathbf{S} = \text{near Secondary lagoon}$; $\mathbf{SL} = \text{near Sludge ponds}$.

FORM SRWWTP 1.03 DATE: 2/24/2001

			S	RWWTP -	Wildlife Activi	ity Log		
Date 2011	Dusk)	Type of Bird(s) Observed	Overflight ? (Y/N)	Showed Interest in Pond ? (Y/N)	Location of Bird(s) (See Location Codes)	Number of Horn Blasts	Result	Inspector (Initials)
12 60	T30/M	N	N	N	N		N	36
12/28	9:00 Am	N	~	N	N	0	N	X
12/28	(000	Ν	N	N	N	0	\mathcal{N}	
12/28	5:30pm	N	N	Ν	N	0	N	RG
12/29	7:00 AM	N	N	N	n/	0		14
12/29	9:00 AN	N	N	N	N	2	N	10
12/29	1:00	N	N	N	N	0	\mathcal{N}	K
BA	S'SEPM	N	N	N	N	Ö	N	3
12/30	7:00 AM	N	N	N	N	$ \mathcal{O} $		10
12/30	9:03 Am	N	N	7	\mathcal{V}	0	N	D.
12/30	1:00	lacksquare	N	N	N	U	N	XC.
13/30	5:35 PM	N	N	N	N	0	N	1
12/31	7:09m	N	N	N	N	0	\mathcal{N}	K
12/31	9.00 AM	N	N	N	N	0	N	RC
12/31	1:00 pm	N	N	N	N	0	N	RC
16-31	5:38 m	N	N	N	N	0	N	W
X								
X							Secondary lagoon: SL = near Sludge n	

Location Code: $\mathbf{B} = \text{near Bermed area}$; $\mathbf{D} = \text{near Diked lagoon}$; $\mathbf{P} = \text{near Primary lagoon}$; $\mathbf{S} = \text{near Secondary lagoon}$; $\mathbf{SL} = \text{near Sludge ponds}$.

FORM SRWWTP 1.03 DATE: 2/24/2001





Inspec	ction		Status of I	Deterrent S	ystems	Wildlife	Observations		
			ence	Bank Cover	Noise Cannon		Exposed Wildlife Observed		Inspector
Date 2011		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	(Initials)
12/1	7:00 AM	N	N	Y	<u> </u>	\mathcal{N}		1/	10
141	6 РМ	N	N	4	4	N	N	N	H
12/1	900 AM	N	N,	4		\mathcal{N}_{I}	1	0/1	A
10/1	1500 PM	W,	N	У	V	N	$\frac{1}{n}$	N	R
17/2	7.00 AM	N	N	4	/ /	\mathcal{A}	1	n/	
10/0	© PM	N	N	14	14	N	N	N	A PA
12/2	9.00 1 AM		N	1/	Y	N	N	N	JO.
	/ PM	N	N	Y	Ÿ	N	Λ/	\sim	为
12/3	7:00 AM	N	N	4	y	N	N	1	RO
10/3	G PM	N	N	4	4	N	N	N	
12/3	Q200 AM	<u> </u>	N	7	Y	<u> </u>	iV.	<i>\(\lambda \)</i>	5.17
	12 00 PM	N	IV.)/	· Y	<u>IV</u>	N	14	50
17/4	7,60 AM	N	N	Y	4	\mathcal{N}	n/	n	10
, , ,	5:3A	N	N	1 7	1 4	N	N	N	THE STATE OF THE S

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

q:\excel\rouge\Srwwtp oil management insp. log sheet

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³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.



Inspec	ction		Status of I	Deterrent S	ystems	Wildlife	Observations		
		Fence		Bank Cover	Noise Cannon	Wildlife Observed	Exposed Wildlife Observed		Inspector
Date Zojl	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	(N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	(Initials)
12/	9:00 AM	ΙV	Ŋ	У	У	IV	N	N	50
19	/ 200 PM	IY	Ν	У	V	N	N	N	50
17/5	7:00 AM		N	Y	4	\mathcal{N}	· N	N	P
100	5.09M	N	N	7	14	N	N	N	The second
12/5	9°00 AM	Ŋ	Ŋ	Y	У	V	N	(V	5.0
	1:00 PM	14	W	Y	Y	N.	N	<i>N</i>	50
12/	700 AM	N	N	<u> </u>	Y	\sim \sim		n	R
	6/20PM		N	4	·	N	N	N	M
12	9200 AM	W	<u> </u>	<u> </u>	Ý	/\	N/	N	5,0
6	/ 200 PM	14	N	Y	У		14	(4)	60
12/2	7:00 AM	1/	N	Y	Y	N	1	n/	P
147	PM	N	N	()	()	N	N	N	2
12/7	91.000 AM	· M	N	4	Y	<i> ✓</i>	N	(V	5.0
//	1 - US PM	N	IV	K	У	V	N	K	5.0

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Inspec	etion		Status of I	Deterrent S	ystems	Wildlife	Observations		
		F	ence	Bank Cover	Noise Cannon	The state of the s	Exposed Wildlife Observed		Inspector
Date Zoll		Breach/ Damage (Y/N) ⁱ	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	Inspector (Initials)
12/	1:00 AM		N	4	Y	N	N		4
- management of the same of th	6 PM	N	Ν	У	Y	N	N	N	x
12/	AM	N	IX	У	У		V	11/	50
<u>/º8</u>	PM	N	lΥ	Y	¥	A .	N	IV	5.0
12/	1,00 AM		N.		Υ	N	N	N	計
The second secon	6'50 PM	~	N	y	У	Ν	Ν	N	R
12/	9 20 AM	N	Ŋ	Y	У	N	N.	ly	5.0
/ 09	РМ 7:00	<i>N</i>	N	y	V	<u>k</u>	N	1/	5.0
13/	′ AM	N	N	<u> </u>	У	N		1/	120
	5:30 PM	<u>N</u>	N	14	<u>'</u> '	N	N	N	
12/	7 AM	\sim	N	<u>y</u>	X	N	N	N	b
/ 10	/· РМ 7:00	N	\sim	У	X	\sim	N	N	&
12/1	AM	\mathcal{N}	N	4	Xi	\mathcal{N}	N	N	RO
/ 11	≥ РМ	73	N		4	N	X	W	the

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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Inspec	ction		Status of l	Deterrent S	ystems	Wildlife	Observations		
		F	'ence	Bank Cover	Noise Cannon		Exposed Wildlife Observed		Inspector
Date 20 //	2011	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	(Initials)
12/	9.00 1. AM	\mathcal{N}	N	Y	X	N	N	N	Ya.
///	/. OD PM	N	N	7	Y	N	N	N	
12/	7700 AM		N	Y	Y	N	N	n/	P
12			N		Υ (N.	N	N	
12/12	9.00 9.AM		\mathcal{N}	У	У	N	N	N	82
	// PM		N	У,	У	N	N	N	2
12/13	7.00 AM	N	\sim	<u> </u>	<u> </u>	\mathcal{N}		n	R
	D PM	77	<u> </u>	Ì	У	N	N	N	HE
12/13	/ AM	N,	Ν_	У	<u> </u>	N	N	N	SC
! L'	7.00	N	N	<u> </u>	<u> </u>	N	N	2	'X
12/14	AM	N	_//_	-У	4		N	N	R
2	5.30 PM	2	N	1	<u> </u>	X	N	N	3
12/14	7 AM	N	N	- Y	У	N	N	N	D
	/: PM	N	N	Y	Ϋ́	N	N		R

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02

q:\excel\rouge\Srwwtp oil rranagement insp. log sheet

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Inspe	ction		Status of	Deterrent S	ystems	Wildlife	Observations		
Date 2011	Time	F Breach/ Damage (Y/N) ¹	ence Location (if Y)	Bank Cover Oiled (Y/N)	Noise Cannon Operating Properly $(Y/N)^2$	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action taken ³)	Location	Inspector (Initials)
12/15	7.00 AM	N	N	4	(¥/N)		1/	0/	//
12/	6:36 PM		<u> </u>	Y X X	Ϋ́	N	N N	N	RC
115	7:00	Ŋ		MY	*	V.	N	IN.	
12/16	5\30PM	7	Z	4	- /	N		1	YLL To ide
(2)6	9.00 AM	N	N	X	У	N	N	N	R.C.
iH.	9,00 8,00	N	N	Υ V	y Y	N	<u>N</u>	N	
V (11	5 30 M	2	N	Y	Ý	N	N	N	RG.
12/17	9.00 AM 1.00 PM	N	N	Y	Y Y	N	N	N	k
12/	4.08	N	N	Y	1	N		N	
/ 18	5;3Рм	N	N	Y	Y	N	N	N	RG

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Inspec	ction		Status of	Deterrent S	ystems	Wildlife	Observations		1
			ence ence	Bank Cover	Noise Cannon	700	Exposed Wildlife Observed		Inspector
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	(Initials)
12/18	9:00 1: AM		N	Y	X	N	N	N	8
	1:00 PM	N	N	λ	У	N	N	N	X
12	T AM		N	1	<u> </u>	N	N	N	31-
19	5:30PM		<u>N</u>	Y	Y	<i>N</i> .	N	N	RG
12/19	1. AM	\sim	N	<u> </u>	γ	N	N	N	X
12/	PM	N	N	У	Y	N	N	7	JC.
0	∫ AM	7	N	<u> </u>	<u> </u>	N	N	N	D-
-	5:30PM 2000		N	Υ	Y	N	N	N	RC
12/20	i AM	N	N	У	Y	N	N	N	
	1:°00 7,∂0	N	N	Y	4	$\mathcal{N}_{\mathcal{A}}$	N	Ν	L
12/21	AM	14	10	7	4		1/	N	R
	5:30 Grod	N	7	7		N	N	N	M
12/21	, AM	M	N	Y	Y	N	N	Ν	C
	/:00 PM	N	Ŋ		Y	M	N	N	X

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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Inspec	etion		Status of l	Deterrent S	ystems	Wildlife (Observations		
			епсе .	Bank Cover	Noise Cannon		Exposed Wildlife Observed		Inspector
Date 2011	Time	Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	(Initials)
17/22	7:00 AM		N	<u> </u>	4	N	N		10
10100	5.3°M		7	7	14	N	N	N	M
	9.00 AM	N	N	Υ	Y	N.	N	N	RG
/22	/:00PM	إحصوبين	N	Ϋ́	Y	N.	N	N	RC
12/23	7:00 AM	-	\mathcal{N}	<u> </u>	7	\mathcal{N}	N	N	RP
· · · · · · · · · · · · · · · · · · ·	5.30 PM	-	N	1	· Y	N	N	N	E E
12/23	9:02M		<u>N</u>	Α	Ä	N	N	N	RG
	1:00рм 7:00	7	<u>N</u>	Ý	Y	N	N	N	RC
12/24	/ AM	N	N	<u> </u>		\sim	1	N	RO
	5:30PM		N	Y	<u>'Y</u>	N	N	N	RE
12/24	AM		<u> </u>	<u> </u>	Y	N	N	N	L.
	/ PM	N	$\mathcal{N}_{\mathcal{I}}$	<u> </u>	Y	N. T. T. T. T. T. T. T. T. T. T. T. T. T.	N ₁	\wedge	X.
Izks	7500 AM		A_{\cdot}	-/_	4	\mathcal{N}	N	N	MC
	5:30 _{РМ}	N	N	Υ	<u> </u>	N	N	7	RC

[&]quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

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Inspec	ction		Status of I	Deterrent S	ystems	Wildlife	Observations	<u> </u>	
Date	Time	F Breach/ Damage	ence Location	Bank Cover Oiled	Noise Cannon Operating	Wildlife Observed (N, or Type Observed)	Exposed Wildlife Observed (N, or Type Observed and action	Location	Inspector (Initials)
2011		(Y/N) ¹	(if Y)	(Y/N)	Properly (Y/N) ²	(1,701 1,701 0,001,104)	taken ³)		_
1425	9. AM		N	ý	Y	N	<u>N</u>	N	X
	/- PM		\wedge	У	Υ	Ŋ	N	N	D
12/26	7500 AM		1	4	<i>y</i>	N/		11/	110
10/00	JJVPM		N	/y	4	N		IN	RC
12/	9-00 7-AM	10	N	Y	Y	N	N	N	C
126	<u> </u>	N	N	Y	<i>y</i>	N	N	N	
בא בו	7:00 AM		N	4	y			N	IRO
12/27	5:38 _M		N	<u> </u>	/\/	N	N	N	RP
12/27	9.00 1.AM	N	\mathcal{N}	7	У	N	N	N	D
`	1/2 F.WI	N	\mathcal{N}	Y	Y	N	7	N	
12/00	7.30 - AM	N	N	Y	4	\sim \sim	XI	X	M
125	5:30рм	N	N	Υ	Y	N		N	RC
12/10	9 00 AM	N	N	4	4	\mathcal{U}_{-}	N	N	So
, 138	/ PM	N	N	·Υ	У	N	N		D

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.



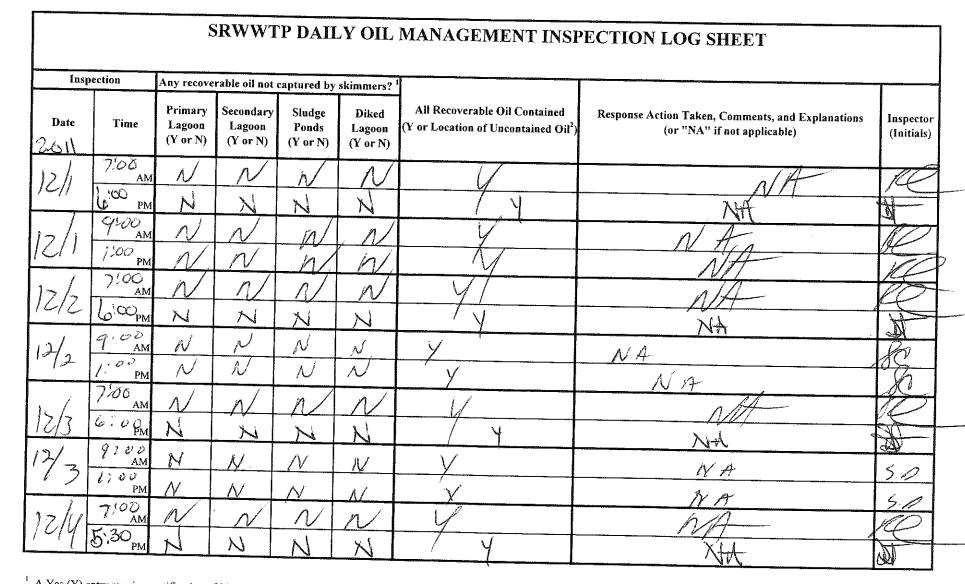
Inspec	ction		Status of I	Deterrent S	ystems	Wildlife	Observations		T-1
Date	Time		ence	Bank Cover	Noise Cannon		Exposed Wildlife Observed		Inches
Date		Breach/ Damage (Y/N) ¹	Location (if Y)	Oiled (Y/N)	Operating Properly (Y/N) ²	Wildlife Observed (N, or Type Observed)	(N, or Type Observed and action taken ³)	Location	Inspector (Initials)
12/29	2:30 5:30 PM		N	Y	<u> </u>	N		n	10
(1)	9 PM 9 00 AM	The second secon	$\frac{\mathcal{N}}{ }$	γ'	/ Y	N	N	N	雅
(2/29	I DD PM	N	N N	7	X	N N	~	N	XC.
12/20	7:00 AM	N	N	V	4	N/	N	N	180
14130	5:30 0:00	2	N	<u> </u>	/	Ň		N	
12/30	AM /: OD PM	N	N	- 	Ý	Ŋ	N	N	R
11/4	7,00 AM	N	N	V		N	- N	N	/sc
	5 ^{,3} PM	N	N	14	14	N		\mathcal{N}	THE STATE OF THE S
17.101	9.00 1: AM 1:00	N	N	Υ	Y	N	N	$\frac{\mathcal{N}}{\mathcal{N}}$	RP RP
\ /	/· PM	N	$N \perp$	<u> Y</u>	<u> </u>	N	N	N	RE
X	AM PM								

^{1 &}quot;Yes" (Y) entry requires 1) description of location (e.g., NE corner, E bank) on log sheet, and 2) notification of Plant Supervisor as soon as possible.

FORM SRWWTP 1.02 DATE: 2/26/2001

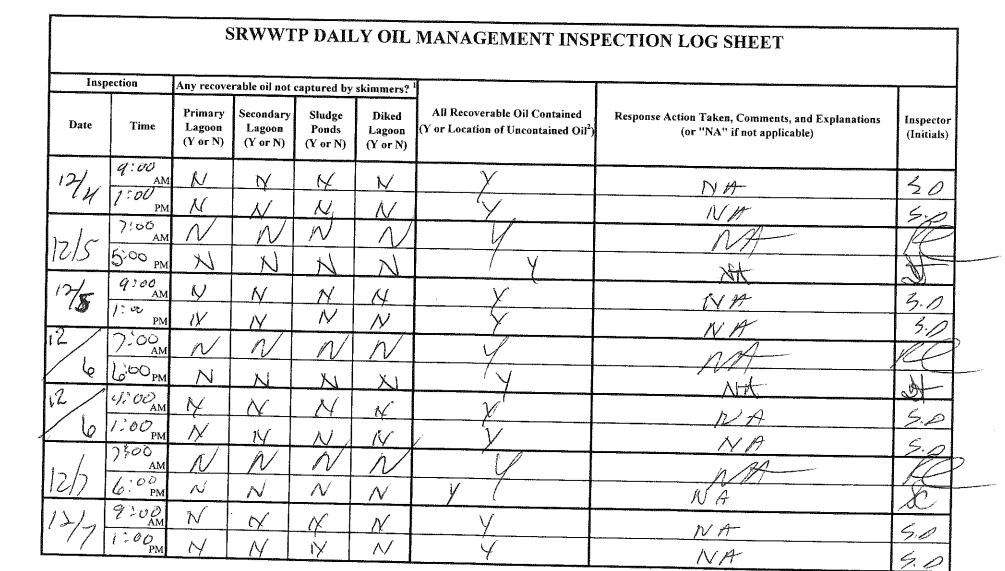
² "No" (N) entry requires notification of Plant Supervisor as soon as possible.

³ If live exposed animals are observed, immediate notification of Environmental Engineering and implementation of animal capture procedures are required. If dead exposed animals are observed, leave undisturbed, and immediately notify Environmental Engineering.



A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).



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SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? 1 Primary Secondary All Recoverable Oil Contained Sludge Diked Response Action Taken, Comments, and Explanations Inspector Date Time Lagoon (Y or Location of Uncontained Oil²) Lagoon **Ponds** Lagoon (or "NA" if not applicable) (Initials) (Y or N) (Y or N) (Y or N) (Y or N) 700 .00 PM 1:00 AM N 1:00 PM. 00 $ho_{\mathcal{O}}$ PM NA Ø Ø AM 1:00 7:00 AM 5:30 NA PM PM

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

FORM SRWWTP 1.01 DATE: 2/25/2001

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	
Insp	ection	Any recove	rable oil not	captured by	skimmers? 1			
Date 2011	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
12/11	9,00 AM		N	N	N	Y	NA	82
/ ' !	/3 PM	N	N	N	N	Y	NA	X
12/	7:00 AM	N	N	N	N	4	M	Re
12	5 ^{1,36} PM	7	N	N	N	()	NA	क
12/12	9,00 AM	N	N	N	N	1	NA	6
112	1,000 PM	N	N	N	N	y	NA	12
12/2	7100 AM	n	1	1/	N	Y	NA	R/
1//3_	530 _{PM}	7	7	7	1	1 4	NA	
12-1	9 PM	N	N	N	N	У.,	NA	
1/13	ing PM	N	N	N		, À	NA	XC/
12/14	7800 AM	N	N	N	N	V	NA	KC
10/14	5:30 pm	N	N	N	N	/ /	XA	M -
12/14	g. Di AM	N	N	N	N	Y	NA	E
. 114) PM	2	2	Ν	7	У	NH	D

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

FORM SRWWTP 1.01 DATE: 2/25/2001

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	YOIL	MANAGEMENT INSP	ECTION LOG SHEET	
Insp	ection	Any recove	rable oil not o	captured by	skimmers? ¹			
Date 2011	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
17/16	7:00 AM		N	N	N	Ý	M	14
17/3	5:36 рм	N	2	7	7	у /	N'A	RG
12/15	9:00 AM	N	N	N	N	У	NA	Sq.
/*7	(: 00 PM	N	\sim	2	N	Y ,	NA	
	7500 AM	N	W	N	N	<i>W</i>	NA	RC
12/16	5:30 рм	7	7	N	N	/ Y	NA	ROC
12/	9,00 AM		Z	7	N	Y	NA	R
14/16	I PM	\sim	\sim	\sim	N	Ý	NA	180
12/17	8:00 AM	N	N	N	N	У	NA	£
10(1/	5:30 PM	N	N	2	N	Y	NA	ROG
12/17	9.00 AM		N	2	N	Y	NA	AC.
11/	[:00 PM	\sim	N	7	N	Y	NA	12
12	$f!\infty_{AM}$	N	N	X	N	\	NA	
18	5:30 PM	N	7	N	N	Ý	NA	RG

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

FORM SRWWTP 1.01 DATE: 2/25/2001

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Inspector Primary Secondary Sludge Diked (or "NA" if not applicable) (Y or Location of Uncontained Oil²) (Initials) Date Time Lagoon Lagoon Ponds Lagoon (Y or N) (Y or N) (Y or N) (Y or N) 2011 NA N PM N N AM 5:30 PM NA AM 00 N N AM 5:30 PM 100 12/201 N NA AM 1.00 NA PM 7,00 PM OD AM N NA

FORM SRWWTP 1.01 DATE: 2/25/2001

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

SRWWTP DAILY OIL MANAGEMENT INSPECTION LOG SHEET Inspection Any recoverable oil not captured by skimmers? All Recoverable Oil Contained Response Action Taken, Comments, and Explanations Inspector Diked Primary Secondary Sludge (Initials) (Y or Location of Uncontained Oil²) (or "NA" if not applicable) Date Time **Ponds** Lagoon Lagoon Lagoon (Y or N) (Y or N) (Y or N) (Y or N) 01 7:00 9:00 AM 1.00 PM Λ N N 1.00 AM N 7:00

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Catled Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	YOIL	MANAGEMENT INSP	ECTION LOG SHEET	
Insp	ection	Any recove	rable oil not o	aptured by	skimmers? ³			
Date 2011	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
12/25	9:00 AM	N .	\wedge	N	N	У	NA	
129	1:08 PM	N	N	N	N	Y	NA	
12/	7:00 am	N	N	N	N	Y	NA	K
12/26	5:30 PM	N	N	7	N	Ý	NA	RC
12/26	9:00 AM	N	N	N	N	У	NA	C
150	1. od PM	N	N	N	N	<u> </u>	NA	
12/27	7:00 AM	N	N	N	N	Y	M	1
1012)	5:30 РМ		N	N	N	/ У	NA	RG
/a/	9:00 AM	N	N	N	N	Y	NA	100
12/27	1. 00 PM	N	N	N	N	У	NA	100
12/	7:30 AM	N	N	N	N	1	MA	M
/ 22	5:30 PM	N	N	N	N	Ý	NA	RC
2/200	9:00 AM	N	N	N	N	Ϋ́	NA	120
10428	1:00 PM	N	N	N	N	I Y	NA	

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

² A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).

		S	RWWT	P DAIL	Y OIL	MANAGEMENT INSP	ECTION LOG SHEET	gerioren de
Inspe	ection	Any recove	rable oil not	captured by	skimmers? ¹			
Date 2011	Time	Primary Lagoon (Y or N)	Secondary Lagoon (Y or N)	Sludge Ponds (Y or N)	Diked Lagoon (Y or N)	All Recoverable Oil Contained (Y or Location of Uncontained Oil ²)	Response Action Taken, Comments, and Explanations (or "NA" if not applicable)	Inspector (Initials)
12/29	7:00 AM 5:30 PM		N	N N		1/4	NA	
12/29	9:00 1:00 PM	N N	N	N	N	Y	NA NA	& In
12/50	7100 5:30 pm	N	N	N	<i>N N</i>	4/	WI	
12/30	9.00 AM	N	N	N	N	Y	NA	80
17/81	7500 AM	N	N N	N	N		NANA	100
1901	5.30 _{РМ}	N	7	2	N	/ Y	NA	
12/31	9:00 AM	<u>i. 1</u>	7	2 2	7	Y	NA NA	RC
X	AM PM				# 1/g	B		IN Ce

A Yes (Y) entry requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column. (Sample: "Called Doetsch" or "Called Barstow").

A "Location" entry (e.g., NE corner, E bank, center) requires notification of Plant Supervisor or removal contractor as soon as possible, AND a note in Comments column (see samples above).